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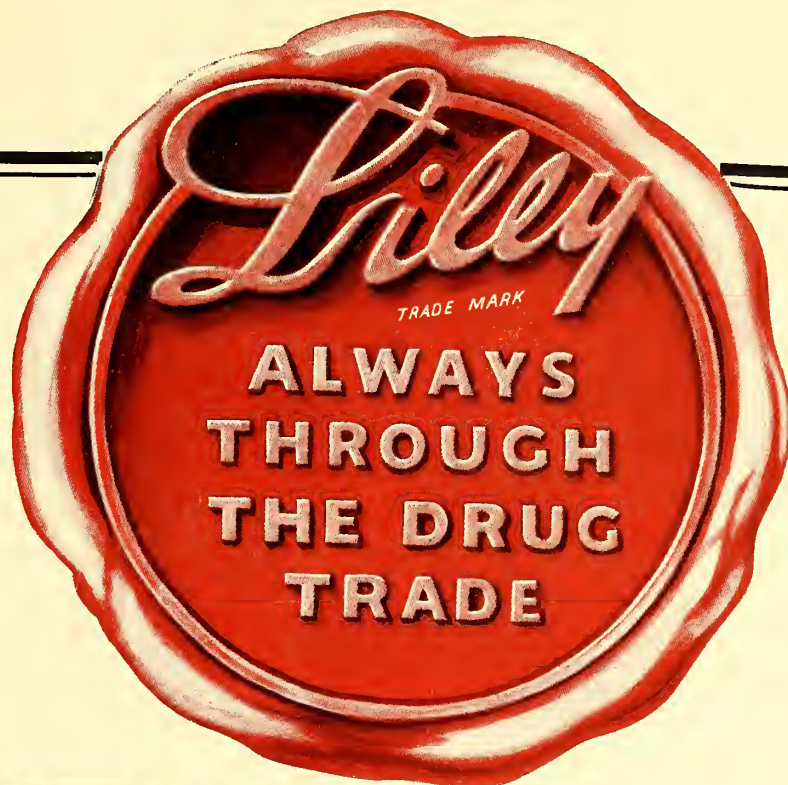
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AUGUST 27, 1938

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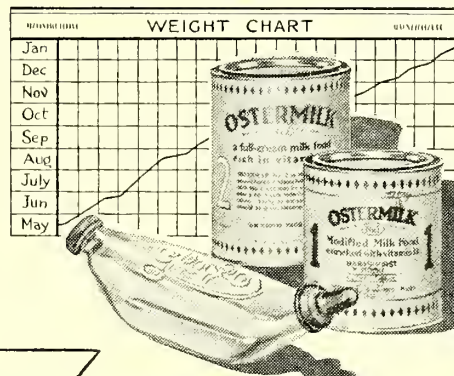
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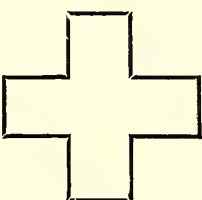
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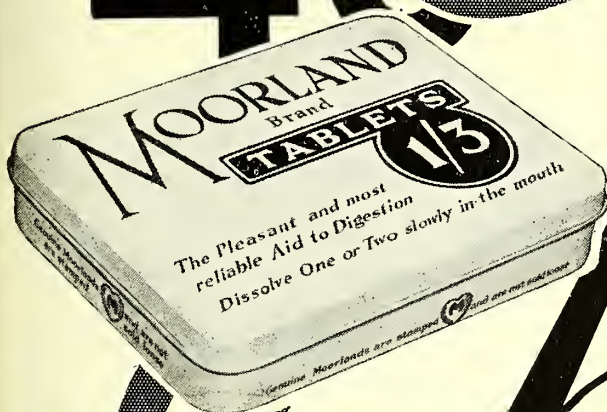
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INDEX TO ADVERTISERS

Anglo-French Drug Co., Ltd. (Pantavene Tablets, &c.)	vi	Cartwright, W. B., Ltd. (Moorland Indigestion Tablets)	5	Graesser, N. H. (Phenol B.P. &c.)	vii
Armstrong Cork Co., Ltd. (Corks)	x	Chemical Workers' Union, The	Col. Supp.	Graesser Salicylates, Ltd. (Salicylates)	vii
Arnfield, J. C., & Sons, Ltd. (Raspberry Vinegar, &c.)	iv	Christy, T., & Co., Ltd. (Cachets and Cachet Machines)	22	Grout & Co., Ltd. (Vic Wrist Support)	10
Aspro, Ltd. (Aspro)	xiv	Cooper, McDougall & Robertson, Ltd. (Vermin Powder, &c.)	Cover iv	Hackett, S. E. (Film Overstocks)	Col. Supp.
Association of Manufg. Chemists, Ltd.	Col. Supp.	Cox, A. H., & Co. (Pills and Tablets)	8	Hall, Forster & Co., Ltd. (Vapourisers)	12
Ayrton-Graham, Ltd. (Shopfittings)	viii	Crown Capsule Co. (Soluble Medicinal Capsules)	20	Hauson, W., & Sons, Ltd. (Bottles)	14
Barker, R., & Son, Ltd. (Infants' Preservatives)	14	Cussons Sons & Co., Ltd. (Baby Powder)	3	Harvey & Co. (Dublin), Ltd. (Veterinary)	xi
Bayer Products, Ltd. ('Luminal')	Leader Page	Cuxson, Gerrard & Co., Ltd. (Carnation Corn Caps)	6	Haywood, J. H., Ltd. (Surgical Appliances)	12
Bell, John, Hills & Lucas, Ltd. (Travel Sickness Remedy)	Leader Page	Davenport, J. T., Ltd. (Chlorodyne)	xiii	Hedley, T., & Co., Ltd. (Glycerine)	Leader Page
Benger's Foods, Ltd. (Foods)	22	Dearborn (1923), Ltd. (Price List)	8	Heriot-Watt College	14
Berdoo & Fish (Valuers, &c.)	Col. Supp.	Dominion Steel Corporation, Ltd. (Razor Blades)	10	Hubbuck, T., & Sons, Ltd. (Oxide of Zinc)	vii
Bolton, Charles V.	Col. Supp.	Dudley & Co., Ltd. (Shop Fittings)	15	Jackson, G., & Son, Ltd. (Jackson's Febrifuge)	20
Bonnington Hotel	Leader Page	Eucryl, Ltd. (Dentifrice, &c.)	11	Jackson, J. G., & Crockett, Ltd. (Packing Machines)	xii
Box, W. H. (Box's Pills)	vi	Fairchild Bros. & Foster, Inc. ('Zymine')	Leader Page	Jacquesil Fabrics, Ltd. ('Dawn' Face Cloths)	10
British Cod Liver Oil Producers (Hull), Ltd.	i	Freudentheil, Smith & Co. (Lofoten Cod Liver Oil)	20	Jeffreys, Miller & Co., Ltd. (Malt Extract)	4
Burrough, James, Ltd. (Alcohol for Perfumery)	Leader Page	George, Ernest J., & Co. (Valuers, &c.)	Col. Supp.	Jobsons, Ltd. (Lavapine Polishes)	Leader Page
Burroughs Wellcome & Co. ('Wellcome' Insulin, &c.)	21	Glaxo Laboratories, Ltd. (Ostermilk)	1	Josephs, Philip, & Sons, Ltd. (Shopfittings)	15, Col. Supp.
Cannon Rubber Manfrs., Ltd. (Hot Water Bottles)	ix				
Carnegie Bros., Ltd. (Chemicals, &c.)	iv				

[Continued overleaf.]

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INDEX—cont.

INDEX—cont.

Kay Bros., Ltd. (Fly Catchers)	20	Perry & Hope, Ltd. (Phosphate of Soda)	20	Speer, W. R., & Son (Toothbrushes)	10
Killgerm Co., Ltd. (Disinfectants)	xi	Porteus, Geo., & Sons (Leeds), Ltd. (Machinery)	x	Sterns, Ltd. (Petroleum Jellies)	ii
King, J. C., Ltd. (Shopfittings)	xii	Potter & Clarke, Ltd. (Wholesale Drug-gists)	19	Sumner, R., & Co., Ltd. (Vitasac) ...	xiii
Levermore, A., & Co., Ltd. (Precipitated Chalk)	20	Premier Oil Extracting Mills, Ltd. ...	iii	Tilbury, W. R., & Son (Toothbrushes)	20
Lilly, Eli, & Co., Ltd. ('Lextron')	Front Cover	Prescriber, The	14	Tokalon, Ltd. (Poudre Tokalon, &c.)	20
Liverpool School of Pharmacy	14	Rendell, W. J., Ltd. (Quinine Presarries)	18	Treble & Co. (Shopfittings)	20
Lofthouse & Saltmer, Ltd. (Halibut Liver Oil)	iv	Richardson, John, & Co. (Leicester), Ltd. (Tablets)	7	Tyrer, T., & Co., Ltd. (Chemicals) ...	iii
London College of Pharmacy	14	Roberts' Patent Filling Machine Co., Ltd.	xii	Vines (Biocrin Pomade Shampoo Treatment)	20
Macandrews & Forbes, Ltd. (Apollo Liquorice)	17	Ronaldson, J., & Co. (Senna)	20	Viscose Development Co., Ltd. (Viskaps)	x
Matthews & Wilson, Ltd. (Tablets, Pills, &c.)	iv	Rouse Bros. (London), Ltd. (Packed Powders)	22	Vosemar Co. (Hair Curlers)	2
Matthews, D., & Son, Ltd. (Shopfittings)	viii	Rowland, A., & Sons, Ltd. (Macassar Oil)	11	Ward, T., & Sons, Ltd. (Wardonia Razors, &c.)	10
Mawdsley, D., & Co. ('Prophies') ...	viii	Rozalex, Ltd. (Rozalex Ointment)	20	Webster, Isaac, & Sons, Ltd. (Stainless Steelware)	xi
Molson Ionised Iodine Co., Ltd.	12	Rudduck & Co. (Shopfittings) ..Col. Supp.		Whiffen & Sons, Ltd. (Australian Sandalwood Oil)	ix
Monsanto Chemicals, Ltd. (Methyl Salicylate, B.P.)	Cover iii	Samona, Ltd. (Samona)	11	White, J. F., & Co., Ltd. (Kompo) ...	14
National Glass Works (York), Ltd. (Bottles)	13	Scott & Bowne, Ltd. (Williams Shaving Preps.)	14	Willows, Francis, Butler & Thompson, Ltd. (Galenicals)	v
Newball & Mason, Ltd. (Extract of Herbs)	vi	Scurr, C. A. (Optical Tuition)	14	Wilson & Mansfield, Ltd. (Eucalyptus Oil, &c.)	ii
Olley, C., & Sons, Ltd. (Corks)	12	Sharplin, W. J., Ltd. (Stoppers) ...	x	Wright, Layman & Umney, Ltd. (Bulk Drugs, &c.)	Cover ii
Orridge & Co. (Valuers, &c.) ...Col. Supp.		Sherley, A. F., & Co., Ltd. (Dog Medicines, &c.)	xi	Yestamin Co. (Dried Yeast Powder and Tablets)	20
Owbridge, W. T., Ltd. (Lung Tonic) viii		Smith, T. & H., Ltd. (Alkaloids)	iii	Zeal, G. H., Ltd. (Clinical Thermometers)	12
		Solazzi Liquorice	ii		
		Southalls (Birmingham), Ltd. (Sanitary Towels, &c.)	9, 10, 12		



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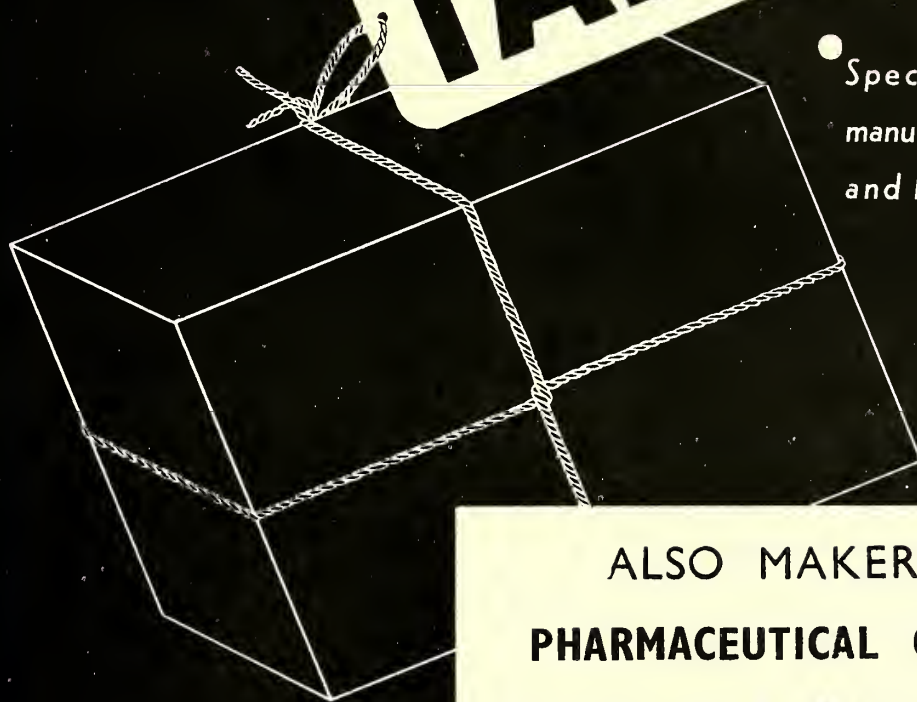
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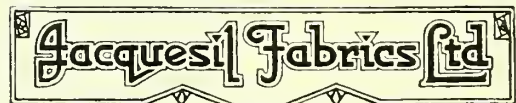
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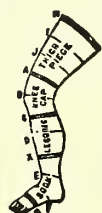
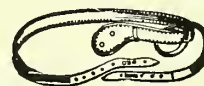
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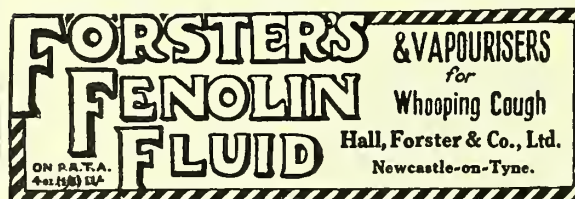
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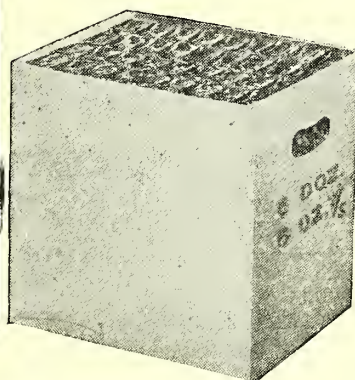
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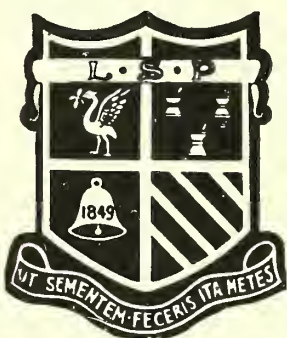
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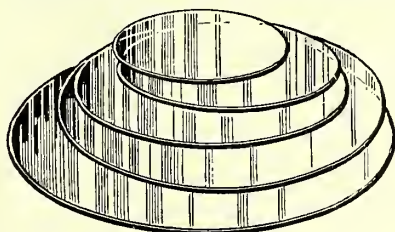
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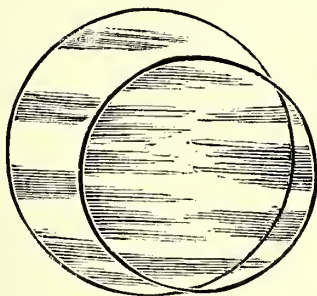
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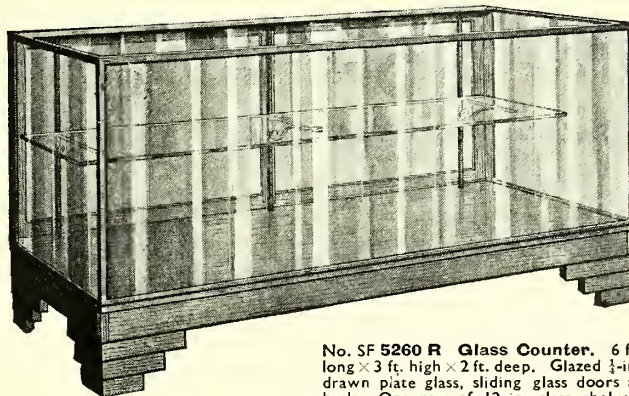
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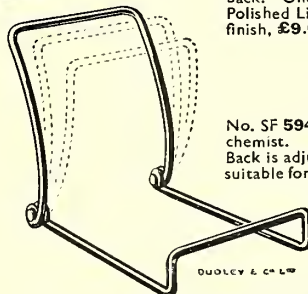
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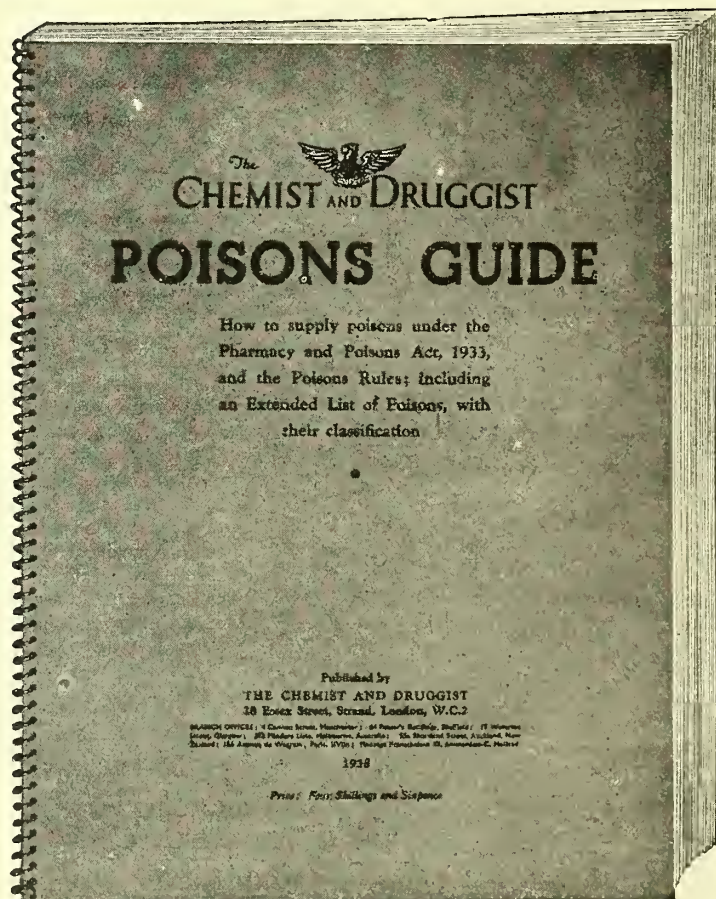
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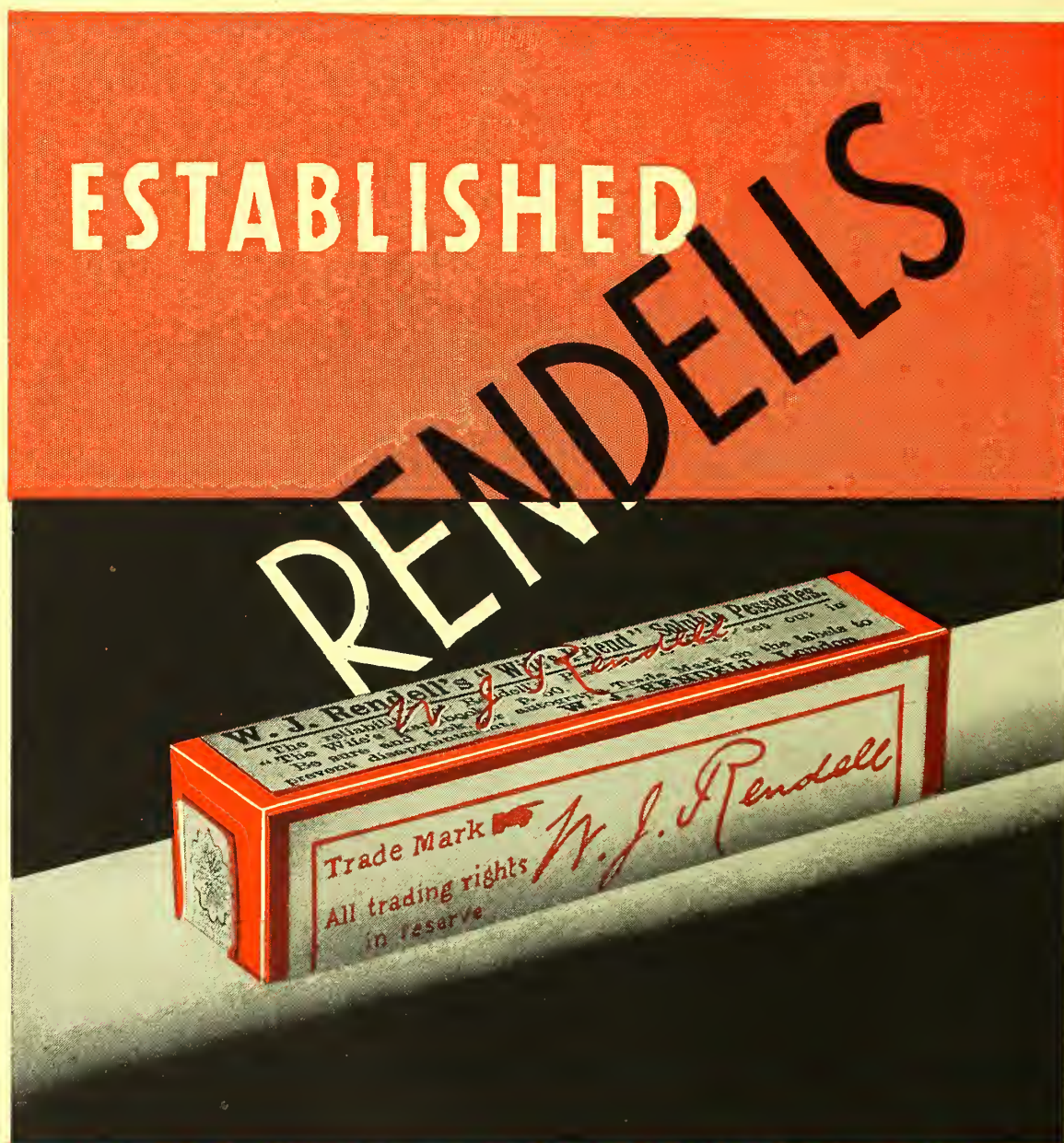
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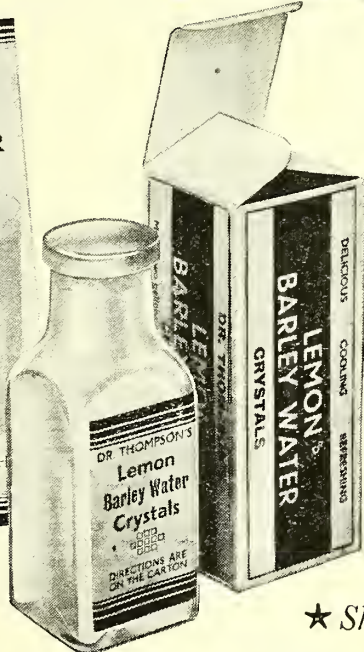
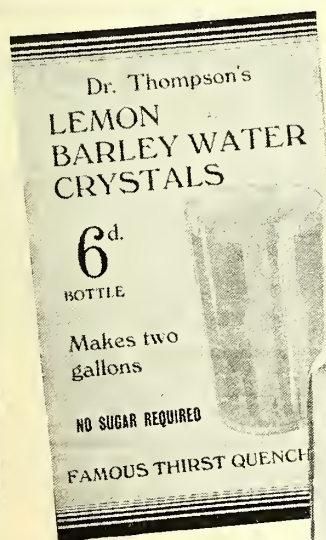
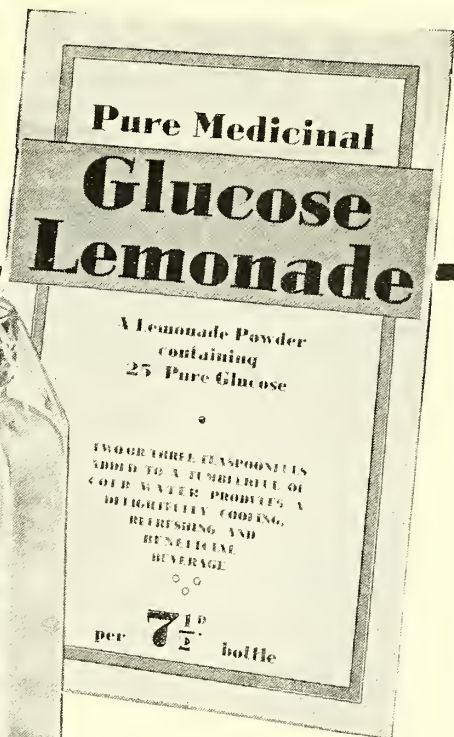
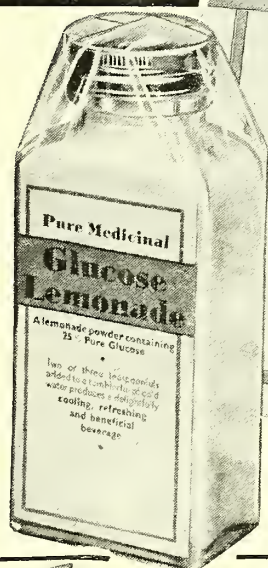
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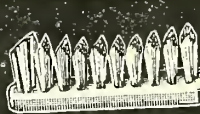
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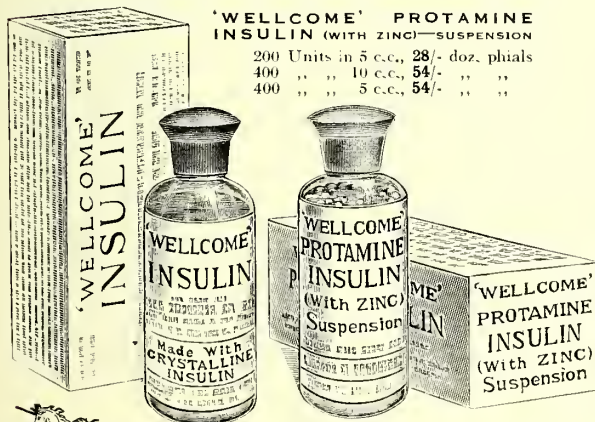
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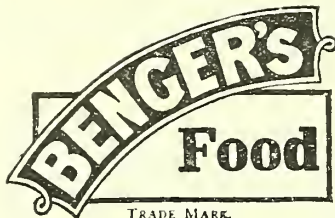
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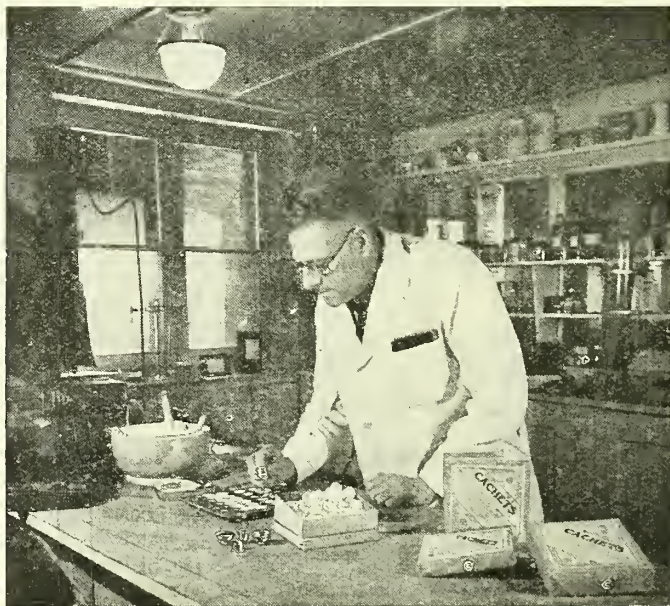
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News of the Week

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J. H. & S. JOHNSON, LTD., wholesale druggists, Liverpool, have removed to 34 LÖVE Lane, Liverpool, 3. Telephone No.: North 2096-7.

JEFFREYS, MILLER & Co., LTD., have moved their London dépôt to 19-25 Brookside Road, Upper Holloway, London, N.19. Telephone No.: Archway 3627.

Proprietary Articles Trade Association

ADDITIONS TO PROTECTED LIST.—Thomas Kerfoot & Co., Ltd., Kerfoot calcium-D, 2s. 6d., 20s. doz. (subject to 5 per cent. discount for cash before the fifteenth of the month following invoice date). Milton Proprietary, Ltd., all products. Milton fluid (already listed), 6d., 4s. 6d. doz.; 1s., 9s. doz.; 1s. 6d., 13s. 6d. doz.; 2s. 6d., 21s. 9d. doz.; dental cream, 6d., 4s. doz.; 1s., 7s. doz.; ointment, 6d., 4s. 6d. doz.; 1s., 9s. doz.; denture powder, 6d., 4s. 6d. doz.; 1s., 9s. doz.; 1s. 9d., 15s. 9d. doz. New window-display cash allowances (replacing former display terms, which have been withdrawn) available on and after September 1: In return for display of not less than fourteen days, 5s. on £2 parcel; 14s. on £5 parcel. Net monthly account. Carriage paid on £2 orders and upwards. Orders may be placed direct or through members of P.A.T.A. wholesale section.

ALTERATIONS.—Dr. Blosser, Ltd., new prices August 29. Dr. Blosser's cigarettes (catarrh remedy), 36, 2s. 6d., 22s. 6d. doz.; 100, 6s. 6d., 58s. 6d. doz.; smoking mixture (for pipes), 1½ oz., 2s. 6d., 22s. 6d. doz.; "extra strong" cigarettes, 36, 2s. 6d., 22s. 6d. doz.; eucalyptus cigarettes, 8, 5d., 3s. 6d. doz.; Blosser brand catarrh lozenges, box of 48, 10d., 7s. 3d. doz. Existing packs will be available until stocks are exhausted.

London

FIRE AT FACTORY.—A fire broke out on August 23 in the factory of Arthur Berton, Ltd., surgical dressing manufacturers, Old Street, E.C. The damage was not extensive.

ASSOCIATION OF PHARMACEUTICAL EMPLOYEES.—Mr. S. B. Williams, 80 Merewood Road, Barnehurst, Kent, has been appointed secretary of the London Advisory Committee of the Association of Pharmaceutical Employees, in succession to Mr. O'Malley.

EDEN GOLF TOURNAMENT.—In the recent Eden golf tournament held at St. Andrews, Mr. A. H. Barnetson, M.P.S., London, S.W.2, who qualified for the match play, was defeated by Mr. Ian McDonald in the fourth round. Mr. Barnetson is a member of the London Chemists' Golfing Society and is on the London representative staff of Cupal, Ltd.

Miscellaneous

IN THE COURTS.—At Boston, recently, Mr. H. M. Hames, M.P.S., was fined two sums of £1 for failing to pay Health and Unemployment Insurance in respect of an employed person.

MANCHESTER CHEMISTS.—A meeting of the chemists on the Manchester N.H.I. panel will be held in the council chamber, Houldsworth Hall, Deansgate, on August 30, at 8.30 p.m. Proposals for the new N.H.I. contract will be discussed.

Irish Notes

Miscellaneous

APPOINTED A JUSTICE.—Mr. Hugh Crail, Ph.C., Fir Lodge, Waterask, Dundrum, has been appointed a justice of the peace for co. Down. Mr. Crail formerly carried on a pharmacy at Upper Newtownards Road, Belfast, but retired some years ago and took up farming.

INQUEST.—A verdict of death by strychnine poisoning self-administered was returned at an inquiry at Londonderry on August 22 into the circumstances attending the death of Miss Lily Haslett. Mr. James Mitchell, Ph.C., William Street, stated in evidence that deceased purchased the strychnine.

MINIMUM WAGE RATES ENFORCED.—At Ballymena Petty Sessions the firm of Patrick Murphy & Sons, Bridge Street, Ballymena, was fined a total of 17s. for paying less wages than the minimum fixed for the aerated waters trade; there was a further order to pay the wages due to the employees concerned. Defendants were also fined 40s. for producing to an inspector records of wages which were false in material particulars, and 2s. 6d. for employing a young person after hours.

Scottish Notes

Miscellaneous

NEW PHARMACY.—Mr. W. K. Henderson, M.P.S., will shortly be opening a pharmacy at 143 Kingsway East, Dundee.

BUSINESS CHANGE.—Mr. Walter Ferrier, M.P.S., Bathgate, has taken over the business of Mr. J. L. Reid, M.P.S., Elm Row, Edinburgh.

KINNINMONT PRIZE.—Mr. Philip Ford, Clydebank, was the successful candidate in the recent examination for the Kinninmont prize, open to pharmacy students in Glasgow and the West of Scotland. The runner-up was Mr. D. S. Robertson, Glasgow. The winner receives a scholarship of ten guineas, tenable at the Royal Technical College, Glasgow. The runner-up receives a special prize of a copy of the B.P.C., presented by the chairman of the committee, Mr. Thomas Guthrie.

CONTENTS

See p. 215

Imperial and Foreign News

Australia

NATIONAL HEALTH INSURANCE BILL.—The Commonwealth Government's National Health Insurance Bill (*C. & D.*, July 23, p. 74) has passed its third reading in the House of Representatives, and is now before the Senate. If the Bill passes through the Senate without material alteration, the intention of the Government is to bring it into operation, as regards contributions, on January 1 and, as regards benefits, on April 1, 1939. In the course of negotiations between the N.H.I. Commission and the Chemists' N.H.I. Research Bureau, agreement was reached that payment should be made on the basis of the British scale of dispensing fees plus 40 per cent. The following principles were also agreed upon: Pharmacists to be directly represented on the Commission and to be accorded in their sphere the same status as medical practitioners in theirs; administration of medical and pharmaceutical benefits to be controlled by the Government and not by approved societies; a pharmacist to be placed in charge of the checking bureau; a formulary to be drawn up jointly by medical men and pharmacists; chemists' accounts to be paid promptly—without discounting as in England; no entries to be required in prescription books; dangerous drugs procedure to be simplified by negotiation with State authorities; drugs to be paid for according to a quarterly drug tariff issued by the Commission and based on current wholesale prices; delivery costs to be taken into account in the case of country pharmacists; insured persons to have free choice of chemist; dispensing to be done by pharmacists and not by medical practitioners in all places where a pharmacist is available.

Far East

TROPICAL MEDICINE CONGRESS.—The Far-Eastern Association of Tropical Medicine will hold its tenth Congress at Hanoi (Tonking) on November 24 to 30. The congresses of the Association are the signs of the scientific activity of a free society which includes members from all the countries of the Far East, grouped in thirty-three local sections, from India to the Pacific. These congresses are held every three years in one of the Eastern countries. The previous nine congresses were held at Manila, Hong Kong, Saigon, Batavia, Singapore, Tokio, Calcutta, Bangkok and Nanking. Although the subject matter of the papers read is not restricted, the Tenth Congress will give special attention to the following questions (within its own geographical sphere):—Food and the deficiency diseases; water systems; cholera; malaria; plague; tuberculosis; venereal diseases; surgery; diseases common to man and certain animals; parasitology; Far-Eastern materia medica; local anthro-pological characteristics.

South Africa

PHARMACY BOARD RULES OF CONDUCT.—The following addition to the rules regarding professional conduct of which the Pharmacy Board of South Africa may take cognisance has been approved by the Minister of Public Health.—14. Associating himself in his personal capacity, or as managing director or employee of a body corporate authorised to carry on the business of a chemist and druggist, or as an employee of a chemist and druggist, with any unregistered person who diagnoses or professes to treat disease.

Topical Reflections

By Xrayser

Slum Clearance and the Trader

Your editorial article on the repercussion of slum clearance on trade (p. 194) has the effect of a bomb dropped into the highway of pharmacy, and inferentially into that of retail business in general. To be faced with unforeseen ruin, through no fault of one's own, after building up a connexion during many laborious years, is a bleak prospect; yet that is what you plainly set forth. I see no help from the Landlord and Tenant Act: for one of your *Diaries* to which I turned states that "in no circumstances can a tenant claim compensation for goodwill where he has himself given notice to determine the tenancy. . . ." Nor do I suppose that any insurance company would quote a rate other than a prohibitive one for the contingency of such an occurrence. The removal of the trader with and at the same time as the customers may be out of the question owing to the terms and conditions of his lease, and the shop may be left high and dry—a survival (so long as it does survive) in a derelict district. Surely it was the business of some responsible body to provide against this type of loss before the present orgy of demolition and new building was launched. Estate agents could, no doubt, have given useful advice if they were so inclined; were they consulted? Multiple traders can afford the loss of an occasional branch—a process sometimes deliberately carried out, as one notices in passing through main thoroughfares. The one-shop proprietor cannot undertake anything comparable except at a very great risk, even if he is in a position to obtain a speedy termination of his lease.

A Stocktaking in Science

The annual meeting of the British Association (pp. 187, 193) invariably brings us something of importance in the way of stocktaking in scientific research; and this year's gathering at Cambridge (the Mayor of which is a past-president of the Pharmaceutical Society) exemplifies the rule. Lord Rayleigh, in his presidential address, dealt with research, regarded as a proper extension of normal vision, in convincing terms, giving, among other things, fresh impetus to the idea of the interdependence of the sciences. Speaking, I presume, with an eye to publication in the daily Press, he devoted more time

to dissipating the figment that "science" has any causal connexion with warfare than I should otherwise have supposed necessary. Your readers are well aware that the concept—if it deserves so dignified a name—is "too foolish for words"; and Shakespeare, whom the president effectively quoted on the digging of "this villainous saltpetre . . . out of the bowels of the harmless earth," made that protest emanate from "a certain lord, neat and trimly drest . . . perfumed like a milliner," who is described a few lines later as "a popinjay."

Apparatus in the Pharmacy

The State of Minnesota, I notice, requires various items to be certified as part of the equipment of a pharmacy before it can be registered (p. 184). This requirement does not seem unduly onerous. Looking back to my period of apprenticeship, I think the pharmacy could have provided sufficiently exact equivalents for most of these pieces of apparatus, though we did not then rise to the height of electric hot plates or refrigerator storage. The two small glass mortars strike one as an unusual feature: I do not remember that their use was ever common in this country, though they were convenient for working with small quantities of material. The absence of mortars larger than that of one-pint capacity appears to need explanation: how is one to turn out sixteen ounces of an emulsion, for instance? With us, fifty years ago, glass measures which met with any accident short of total disablement were repaired in ingenious ways that I need not indicate; they were then reserved for measuring commodities such as camphorated oil. The "catalogue of all instruments necessary to furnish an apothecary" mentioned on p. 725 of your Special Issue of June 30, 1934, is of interest for comparison with the American list. It dates from 1639; as in Minnesota, three mortars are required, but the principal one is to be "a great Mortar of Brasse weighing fifty or sixty pound or more, with a pestle of iron." The French treatise from which this is translated is dated 1625. I cannot trace the name of the author, Philbert Guibert (whose name is variously spelt on different title-pages), in books of reference; but at any rate his work was regarded as worth translating into English.

Legal Reports

Correction.—In our issue of August 6 we reported under the heading "Damages Awarded" an account of an action brought by Miss Marie Connolly, of Kilsheelan, co. Tipperary, against Mr. Arthur Pitt, a director of Bell Brothers & Henry Bell, Ltd., pharmaceutical chemists, Waterford, for alleged malicious prosecution. We are informed by the defendant's solicitors that this action was in respect of alleged false imprisonment and not malicious prosecution as stated, that the action was brought simply to vindicate Miss Connolly, that Mr. Pitt voluntarily offered to pay Miss Connolly's costs, although under no obligation to do so, and that no damages were awarded. We regret any wrongful impression that may have been caused by the paragraph in question.

Pharmacy Act Cases.—At Marylebone, London, Police Court, on August 22, R. G. French, Crawford Place, was fined £6 for the unauthorised sale of poisons by retail in various proprietary preparations.—At Old Street, London, Police Court, on August 19, Solomon Barlow, Brick Lane, E., was summoned for unlawfully selling acetanilide in a proprietary brand of tablets and for supplying them in a container not properly labelled. The summonses were dismissed on payment of costs.—At Biggleswade Police Court on August 17, O. F. Ansell was fined 7s. 6d. in respect of two offences under the Pharmacy and Poisons Act. It was alleged he had sold a preparation containing phenol when he was neither an authorised seller nor a listed seller.—At Lambeth, London, Police Court, recently, Samuel Rose, Camberwell, S.E., was fined £6 2s. for selling by retail a poison in a container not labelled in the prescribed manner and doing so without being an authorised seller of poisons.—At the Thames Police Court, London, recently, J. Lief, Ltd., Stepney, were summoned for selling strychnine in a syrup of hypophosphites, the sale not being effected by or under the supervision of a pharmacist. A fine of 40s. was imposed.—At Ilford, recently, a summons against J. W. Clark (Chemists), Ltd., for unlawfully selling acetanilide in a proprietary brand of tablets was dismissed on the payment of costs.

N.H.I. Regulations

THE Department of Health for Scotland has issued National Health Insurance (Medical Benefit) Regulations (Scotland), 1938 (S.R. & O., 1938, No. 609/S.38, H.M. Stationery Office, price 1s. 7d.), which will come into force on September 1, 1938. The Regulations are mainly a consolidation of existing regulations. The principal alterations are:—*Regulation 2*, definition of "insured person" extended to include juvenile contributors and a definition of "juvenile contributor" added; *Regulation 6*, amended to provide that the Drug Tariff shall include standards of quality for drugs and appliances; *Regulation 39*, appeal procedure amended to enable the Department to appoint one, two or three persons to hear and determine an appeal instead of three in every case as at present; *Regulation 40 (proviso)*, existing proviso (dealing with the procedure in the case of oral representations) found unnecessary and deleted (a person supplying drugs or appliances who expresses a desire to make oral representations is still able to do so). The list of "prescribed appliances" to which an insured person is entitled has been extended to include elastic adhesive bandages, half spread, $2\frac{1}{2}$ in. and 3 in., and suspensory bandages, cotton; catheters, rubber, supra-pubic, and rubber shields for use therewith; elastic adhesive dressings, medicated; picric gauze; and spinal jackets. The following appliances involve variations from those formerly prescribed:—Gauze and cotton tissue (formerly "gauze and cottonwool tissue"); hypodermic syringes or parts thereof for self-administration of insulin as described in the Drug Tariff for the time being in force (last twelve words added); splints, rigid, including Gooch splinting and poroplastic, but excluding calliper splints, surgical pads and foot splints worn with boots or shoes (formerly simply "splints"). An appendix gives standards and specifications for the additions to the schedule and approximate prices for the elastic adhesive bandages, suspensory bandages, elastic adhesive medicated dressings and picric gauzes, with method of calculating prices of catheters and spinal jackets.

Company News

P.C. means Private Company and R.O. Registered Office

OLIVE OILS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of producers, refiners and dealers in olive or other oils and liquids, etc. R.O.: 75 Bute Street, Cardiff.

KIDDIES DRUG STORES, LTD. (P.C.).—Capital £500. Objects: To carry on the business of dealers in toilet sundries, druggists, etc. The first directors are Alfred Black, draper, and Mrs. Lily Black, 21 York Place, Brighton.

WAKES DISPENSING CHEMISTS, LTD. (P.C.).—Capital £300. Objects: To carry on the business of chemists, herbalists and seedsmen, etc. William Wake, director. Solicitors: Donald Harvey & Co., West Keppel Street, South Shields.

BUILDERS CHEMICALS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers, importers and exporters of all kinds of chemicals, etc. Basil Mayer, Bassishaw House, Basinghall Street, E.C.2, director.

FITZROY LABORATORIES, LTD. (P.C.).—Capital £1,000. Objects: To carry on business as wholesale and retail chemists and druggists, laboratory proprietors, etc. The first directors to be appointed. Secretary: J. A. Steemson, 11 New Court, Lincoln's Inn, London, W.C.2.

KILVER, LTD. (P.C.).—Capital £200. Objects: To carry on the business of general chemists, herbalists and drug merchants, etc. Kenneth Maclean, 53 St. Augustine's Road, London, N.W.1, and Arthur C. Vyle, 24 Surbiton Court, Surbiton, Surrey, directors. Solicitor: W. Pope Chitty, 13 Southampton Street, London, W.C.1.

CANINE CATERERS, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of manufacturers and merchants of chemical and other substances used for agricultural, horticultural, veterinary and sanitary purposes, and of canine and livestock foods, etc. Eric Chart, "Rillbank," Forest Drive, Keston, Kent, director. R.O.: Union Bank Chambers, Katharine Street, Croydon.

EMANOTHERAPY ASSOCIATION, LTD. (P.C.).—Capital £2,400. Objects: To acquire the joint undertaking for research and development in emanotherapy belonging to Major C. J. P. Ball and J. W. Bell, and to carry on the business of manufacturers of and dealers in apparatus and preparations for emanotherapy and radiology, violet ray and x-ray tubes and apparatus, medical and hospital instruments, etc. Bertram J. Hamlin, 68 Mitcham Lane, Streatham, S.W.16; Jonathan W. Bell, Pailton, 3 Queen's Road, Cheltenham, directors.

DR. SCHOOP PROCESSES, LTD. (P.C.).—Capital £3,000. Objects: To acquire from Dr. Edwin Schoop the benefit of certain existing inventions relating to the preservation of fruit, vegetable and similar juices, and to carry on the business of manufacturers of and dealers in essential oils, essences, juices, cordials, liquors, spirits, etc. The first directors are: Dr. Edwin Schoop, Rheinfelden, Switzerland (permanent), and others to be appointed. Solicitors: McKenna & Co., 31-34 Basinghall Street, London, E.C.2.

TAMPAX (CONTINENTAL), LTD. (P.C.).—Capital £40,000. Objects: To manufacture absorbent tampons or other catamenial devices and to sell and export them pursuant to certain letters patent and trade marks under licence to be granted by Tampax, Inc., Delaware, U.S.A. First directors: Ellery W. Mann, Wm. C. Wellis and Ralph St. Hill (deemed to have been appointed by Tampax, Inc.), and Henry S. Ebben, Arthur S. Cade and John T. Bett (deemed to have been appointed by Lonsdale Investment Trust, Ltd.). Solicitors: Clarke, Square & Co., 28 Bolton Street, Piccadilly, London, W.1.

TELL & CO. (PHARMACEUTICAL MANUFACTURERS), LTD.—Notice is given in "The London Gazette" that a meeting of the creditors of the above-named company has been convened for August 25 at First Avenue Restaurant, High Holborn, W.C.1.

GILES CASH CHEMISTS, LTD.—Notice is given in "The London Gazette" that a meeting of the creditors of the above-named company has been convened for September 23 at the offices of the liquidator, 2 Bixteth Street, Liverpool.

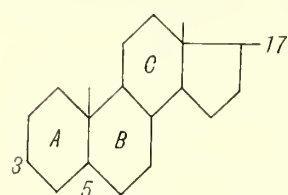
British Association

BELOW are given summaries of some of the papers read, and subsequent discussions, at the annual meetings of the British Association for the Advancement of Science, Cambridge, August 17 to 24. Abstracts of the presidential addresses of three of the sections were given in last week's issue, p. 187.

Biological Activity and Constitution of Hormones

The repercussions of synthetic organic chemistry on biology and medicine were discussed at a meeting of Section B (chemistry) on August 23. Professor E. C. Dodds stated that oestrogenic activity of synthetic compounds showed that biological activity could be imitated by a whole series of substances which were possibly quite foreign to the body. Thus 4:4'-dihydroxy- α : β -diethyl stilbene is several times more potent than natural hormone. Such demonstration indicates that there must be a complete change of view in regard to the specificity of biological action of hormones and vitamins.

Professor L. Ruzicka dealt with the relationship between chemical constitution and physiological activity of androgens. The quantitative difference between androsterone and testosterone is of considerable importance. The two substances exert equal action on growth of capon comb, but testosterone possesses about five times the activity of androsterone in influencing growth of the seminal vesicles and prostate in rats. Androgen activity is only possessed by androstane derivatives, of which more than fifty have been prepared and investigated. Physiological activity depends upon the nature of the substituents in the 3, 5 or 17 positions of the androstane nucleus and their steric configuration. Position 5 shows the greatest effect of steric configuration, the *trans* position of rings A and B being physiologically active, whereas the *cis* isomers are inactive. The presence of a double bond in the 5-position is essential for oestrogenic activity and also appears to be necessary for progesterone-like action of androgens.



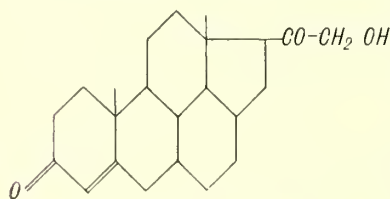
Androstane nucleus

The presence of a keto group in position 3 makes the action on the seminal vesicles and prostate greatly superior to that of the corresponding hydroxyl derivative. A reversed relationship exists for the 17-position, the hydroxy group being more active than the keto group.

Dr. A. S. Parkes pointed out that the oestrogens depress pituitary activity in both sexes and that several androgens are able to inhibit the sexual cycle of the female by depressing pituitary activity and causing atrophy of the gonads. A similar indirect effect of androgens is the lowering of adrenal development in the female and castrated male. Progesterone is devoid of androgenic and oestrogenic power, but testosterone and several other androgens methylated in position 17 cause progestational changes in the uterus. Both progesterone and the androgens are able to protect the intact female against certain effects of oestrogens.

Adrenal Cortical Hormones

Dr. T. Reichstein considered that deoxy-corticosterone is probably the simplest substance showing full "cortin-activity."



Deoxy-corticosterone

This differs from natural corticosterone in not possessing a hydroxy group in 11-position. Biological tests indicate that the acetate of deoxy-corticosterone has an activity greater than that of natural corticosterone, whilst hydrogenation of the double bond eliminates biological activity. The hydroxy group in the side chain is essential to cortin activity, its removal resulting in the formation of progesterone, which is without cortin-activity.

Vitamin B₁

Professor A. R. Todd stated that investigation of the synthetic analogues of vitamin B₁ shows that (apart from alteration in the nature and position of the alkyl substituent on the pyrimidine nucleus) any change in the molecule destroys the physiological action almost completely. Though the exact function of vitamin B₁ cannot be stated with certainty, it is clear that it plays an important rôle as part of the enzyme system in carbohydrate metabolism.

Vision

Dr. F. W. Edridge-Green explained that in acquired colour-blindness following a septicæmic condition, red and violet are the last to go and the first to reappear on recovery from total colour-blindness. This effect regarding two colour sensations throws light on the nature of dichromic vision in congenital colour-blindness. Mr. K. J. W. Craik finds that in sensory adaptation to light darkness lowers and brightness raises the threshold value of the eye. Brightness discrimination was keenest, and acuity highest, when the eye was adapted to the same illumination at which it was tested, but a marked deterioration was evident at illumination far above and below this.

Protoplasmic Osmosis

Dr. T. A. Bennet-Clark and Miss D. Bexon showed that the view that cell turgor is maintained by difference in osmotic pressure between vacuole and solution external to protoplast is no longer tenable. Thus a protoplast plasmolysed by potassium chloride (of twenty-eight atmospheres) permits rapid entry of water into the vacuole when suddenly transferred to sucrose solution (of twenty-eight atmospheres). In general there is a flow of water into the vacuoles when a tissue is transferred from an electrolyte solution to a non-electrolyte, and this may act in the opposite direction to osmotic pressure differences. Study of the behaviour of isotropic series Na-Ka-Ca-La suggests that water movements are due to electrostatic forces set up by the ions of the electrolytes. Such "electrosmotic" pressures may amount to fifty atmospheres (compared with about fifteen atmospheres generated by osmosis), and hence may be of great importance in plant turgor. Dr. T. G. Mason and Dr. E. Phillis find that the tenacity with which protoplasm retains water under direct pressure is in great contrast to the ease with which water is expressed from gelatin gels. Only one-third of the total water is obtained from cotton leaves exposed to direct pressures of 14,000 lb. per sq. in. The remainder of the water is yielded at relatively low pressures provided the residue is gently rubbed between the fingers and thumb. It is suggested that protoplasm possesses a gross structure that is destroyed by small shearing forces, but that this withstands large direct pressures. It is concluded that the continuous medium of protoplasm cannot be aqueous.



PRELUDE TO CONFERENCE.—Scene in reception room, Examination School, Cambridge, at commencement of annual meetings of British Association.

Medical Abstracts

Recovery from 300 Aspirin Tablets

A REMARKABLE case of recovery after taking 1,500 grains of aspirin is recorded by Evans in the "British Medical Journal," August 13, 1938, p. 386. The patient was a youth of about twenty, who, it was discovered, had swallowed 300 aspirin tablets, and who on examination was in a semi-comatose condition. It appeared that this performance of taking the tablets had occupied two hours or more. The first treatment instituted by the doctor on arrival was the administration of 1 oz. of mustard in water, which brought about profuse vomiting. For some days after the patient suffered with tinnitus, flashes of light before the eyes, irregularity of the heart and a fall of blood pressure, but in spite of these he recovered.

An Unusual Case of Dermatitis

AN account of an unusual sensitivity to hæmorrhoidal ointment containing krameria and oil of cade is given by Grolnick in the "Journal of the American Medical Association," 1938, I, p. 951. The patient concerned complained of itching and pain in the perianal region several years ago, and examination revealed that he had been using a proprietary ointment which contained these ingredients for the relief of a prolapsed hæmorrhoid. A patch test with a sample of the ointment was made, which produced an erythema in twenty-four hours. The patient was then tested with the ingredients separately, and a positive skin reaction was obtained for krameria and oil of cade. On a later occasion the patient was further examined, having complained of a dermatitis in both armpits, and it was found that the week previously he had been using a deodorant on this area. The dermatitis was followed by redness and the appearance of small vesicles. Two years later the patient submitted to a number of sensitivity tests, which included extract of krameria, and it was found that a positive reaction was still produced by the latter.

Sodium Nitroprusside in Urine Analysis

OWING to the instability of solutions of sodium nitroprusside, which are used largely for the detection of acetone bodies in urine, a test solution of this substance, which is very stable, can be prepared by the addition of a little nitric acid ("British Medical Journal," August 13, p. 348). It is stated that the presence of the acid in no way interferes with the reaction for acetone bodies in the urine. The solution is always ready for use, as it keeps indefinitely. The following are the formulas for the two solutions used in this test:—

Solution No. I.—Ammonium sulphate solution:—

Saturated solution of ammonium sulphate 200 c.c.

Solution of ammonia (S.G. 0.88) ... 200 c.c.

Solution No. II.—Sodium nitroprusside solution:—

Sodium nitroprusside crystals ... 10 gm.

Dissolve in

Distilled water ... 90 c.c.

Then add

Concentrated nitric acid ... 1 c.c.

To 5 c.c. of urine add 5 c.c. of solution No. I, then add 1 c.c. of solution No. II and shake. Set aside for one minute. In the presence of more than 0.1 per cent. of acetone bodies a deep purple colour will be formed. If there are only traces of these compounds present, the colour of the mixture will be deep red.

Calcium in Nutrition

THE benefits derived from the administration of calcium to children fed on diets low in this element are described in an article in "The Lancet," July 16, p. 152. The investigations in question followed observations that laboratory animals fed on a diet supplemented by calcium lactate showed a steady increase in weight compared with control animals which did not receive such treatment. The study has been conducted on young children in Southern India, whose calcium intake was considered to be much less than the accepted standard; for example, the daily intake per consumption unit in a group of twenty-nine village families was considered to be 0.31 gm.,

which is about half an accepted standard of 0.68 gm. The children were divided into two groups, to one of which 0.5 gm. of calcium lactate per child was given daily, while the other control group received no calcium. The experiment was continued for a period of nearly four months. Tables show the comparative results of the two groups and reveal that the height and weight increments in the group receiving calcium lactate were significantly greater than in the control group, and it is stated that the children in the former group appeared brighter and more energetic, and that the health of a number of sickly or delicate children improved. Where local conditions present a difficulty in providing milk supplies to sick children, calcium lactate, the authors state, can be recommended as a partial milk substitute.

Treatment of Arsenical Dermatitis

IN an attempt to clarify the question concerning the value of sodium thiosulphate in the treatment of arsenical dermatitis, Ayres and Anderson have recently conducted experiments on a series of cases and have described their particular technique of administering the substance ("Journal of the American Medical Association," 1938, I, p. 886). Although the use of this compound has been the accepted form of treatment for arsenical dermatitis for many years, there have been several conflicting reports in America to the effect that there was no evidence that the drug had any value in the condition. However, Ayres and Anderson, using an elaborate technique of the intravenous injection of 1 gm. of sodium thiosulphate in 10 c.c. of sterile water, which they describe in detail, affirm as a result of their study of fifty-nine cases of different dermatological conditions, that an increase of urinary arsenic usually follows a single injection of the drug.

Complications in Ergotamine Therapy

AN extensive survey of all original reports concerning untoward sequelæ of ergotamine tartrate therapy has been undertaken by von Storch in America, and some observations based on a five-year study with the drug in the treatment of migraine are given in a recent article by him in the "Journal of the American Medical Association," July 23, p. 293. The survey dates back to 1918, when ergotamine was isolated, and since that time forty-two serious sequelæ have been recorded following the use of the drug. Of these, twenty-three have occurred in gynaecological and obstetric cases, eleven in cases of hyperthyroidism, and eight in miscellaneous disorders. None has been reported in the treatment of migraine headache. Of the total, symptoms ranging from original attacks to impending gangrene have developed in twenty cases, gangrene in twenty-one and death in one. An attempt has been made to estimate approximately the number of cases in which the drug has been used without untowards effects, and a conservative figure is given as hundreds of thousands, and a percentage of accidents over twenty years must therefore be less than 0.01, or 1 in 10,000. None of these have occurred in the treatment of migraine headache. Of a group of 189 unselected patients who have been treated with ergotamine tartrate for migraine, the author observed that 90.4 per cent. of them were relieved of one or more attacks by one or more administrations of the drug. In twenty of these patients who have taken the drug over long periods, and whose records have been kept, no case of ergotism has been observed, nor has there been any evidence of ergotism in any of the 189 cases treated. On the other hand, however, accessory symptoms have been noted frequently, some of which are identical with symptoms of early ergotism. From a comparison of the accessory symptoms of ergotamine tartrate and the description of ergotism given in the present article, it is apparent that the former are very similar to the milder symptoms of convulsive ergotism. This suggests that the convulsive factor in whole ergot is associated with ergotamine, but since there are other derivatives of ergot which produce similar symptoms, it seems clear that ergotamine produces a type of ergotism as yet undistinguishable from that caused by whole ergot. Von Storch states that when correctly administered, in absence of any contraindications, ergotamine tartrate may be considered a safe and extremely valuable means of aborting or terminating migraine headaches.

Robert Blackie's New Premises

FOR over forty years the firm of Robert Blackie has been associated with Tower Bridge Road, London, but recent growth has compelled the severance of old ties. A move has been made to larger and more convenient premises at Peckham. The new premises, in accordance with prevailing tendencies, are a ground-floor factory, presenting a somewhat

is set aside for the manufacture of granular salines and citrates; this section includes a large hot-air oven of special design with trays for rapid drying of the granular material. There is also an apparatus of unique design for the production of solid methylated fuel, as used extensively during the Great War. The personal element continues to be of great importance in the organisation, which remains under the direct supervision of Mr. Robert Blackie, M.P.S.



Interior view of part of new premises

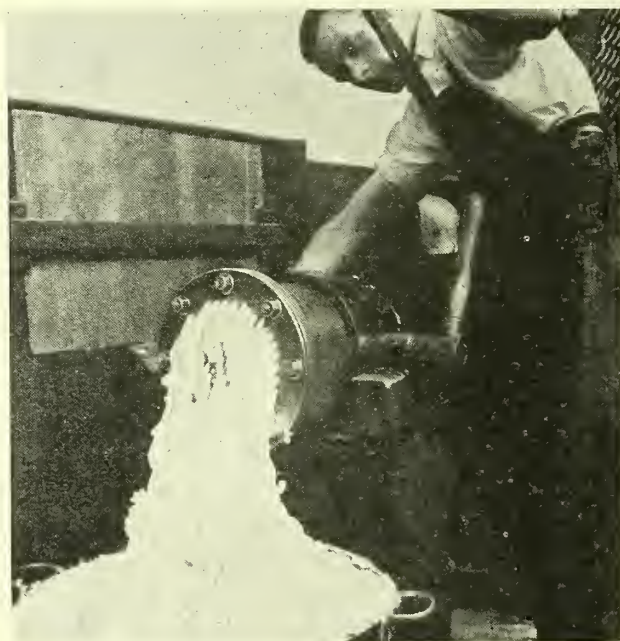
Test Laboratory and Other Sections

Analytical control and experimental work are carried out in a well-equipped test laboratory, where in a special "cage," as required by the authorities, dangerous drugs are stored and used. A portion of the works has been set aside for dealing with beauty aids and preparations (lipsticks, mascaras and others). Powders of all types are dealt with in a separate mill room, equipped with mills, sifters and mixers, and a centrifugal silk sieving-machine for the finer grades of face powder. A form of gas lighting is employed here that gives an illumination approximating to daylight, to obviate the difficulties usually experienced in matching colours by artificial light. A bottle store, also covering 14,000 square feet and opening out on to a spacious receiving and loading yard, provides a temporary home for thousands of gross of bottles of many shapes and sizes. Dry salts are stored in a separate building opening on to the loading yard. A recreation room is provided for the employees while the clerical and administrative

unusual appearance in this rather crowded portion of London. Yet it must be admitted that they are in, for Peckham, a comparatively open situation and set well back from main roads. The layout of the premises has been planned to ensure continuous, smooth working and a concentrated output. The laboratory feeds bulk-manufactured preparations into one end of the packing rooms. From stores at the same end, but on the opposite side, bottles and various packing materials are drawn. As they progress along the length of the rooms, the necessary caps, labels, etc., are taken from stores in a gallery until the completely finished articles emerge on to the checking and packing benches at the far end ready for dispatch.

Modern Lighting and Heating

The main packing and finishing hall has a total capacity of over 336,000 cubic feet and a floor space of over 14,000 square feet. Lighting is from the roof, giving shadowless working conditions for the packers during daylight hours. Heating, which is effected by blowing purified warm air downwards from special ducts, is controlled automatically by thermostats which switch off heaters and electric fans when the temperature required by the Factory Acts is reached. Steam for the laboratory is generated by an automatically controlled gas-fired boiler, one of the first of its type in the South of England. This requires no attention, automatically adjusting the head of steam required in accordance with the demands made upon it. One of the chief features of the laboratory is a series of aluminium pans of special design used for the manufacture of Spun ointments. Also located here are the spinning machines employed to give that special uniformity and consistency to the ointments which is unobtainable by any other process. One of the illustrations on this page shows the Spun zinc ointment emerging from one of the spinning machines. The equipment includes a number of homogenisers, triple granite roller mills, paste mixers, a giant hydraulic press and other apparatus pertaining to a modern large-scale laboratory. In view of the importance of having the correct atmospheric conditions for the production of this class of preparations, a portion



A batch of Spun ointment issuing from the machine

staff is housed in a series of five offices facing Melon Road, Peckham. Showcards for the firm's specialities are produced on the premises by the "cutter-crush" process, while all wooden export cases used are made in the works carpenters' shop.

Packaging Awards

IN the second annual contest organised by "Shelf Appeal," in which awards are given for the most outstanding examples of British packaging, entries were twice as numerous as in last year's contest, more than 850 packs having been submitted. The judges were Messrs. J. H. Page (chief buyer of printing supplies, Unilever, Ltd.), J. A. Shenfield (head of packaging research department, Marks & Spencer, Ltd.), C. C. Lipscomb (in charge of package advisory bureau, Metal Box Co., Ltd.), A. J. S. Painter (director and distribution manager, Meggesons, Ltd.), G. L. Tillotson (director, Tillotson & Sons, Ltd., carton makers), and the editor, "Shelf Appeal." In their report, the judges stated that the level of craftsmanship was high in some classifications, poor in others. In the section for lettering, comment was made on the tendency to outline lettering unnecessarily and to distort it. Very few entries apart from prize-winners showed, in the view of the judges, appreciation of the textures and colours made possible by many fancy papers. The section which won the highest praise was "package engineering," or the study of the consumer's convenience in the designing of containers.

Among the winning entries were those illustrated on this page, namely:—

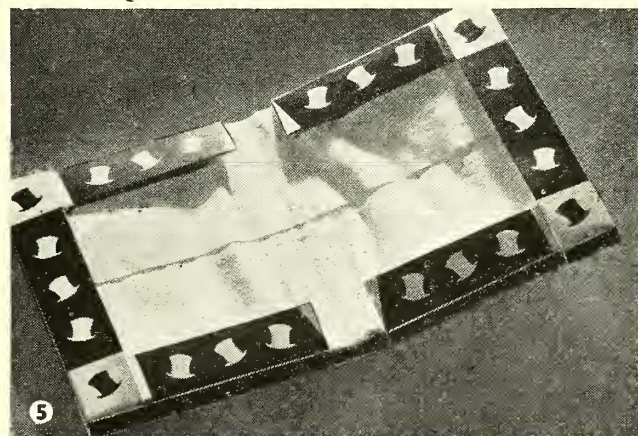
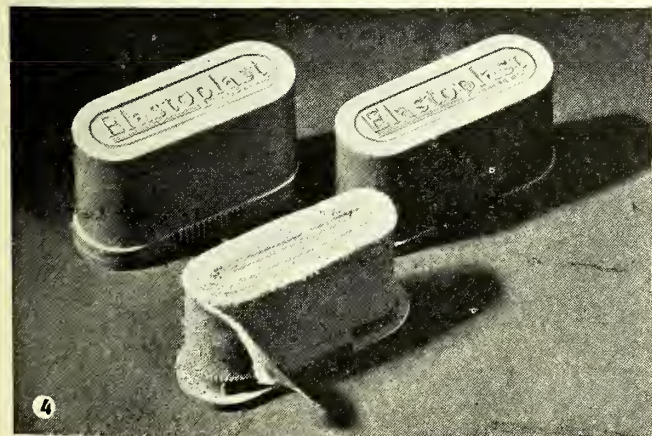
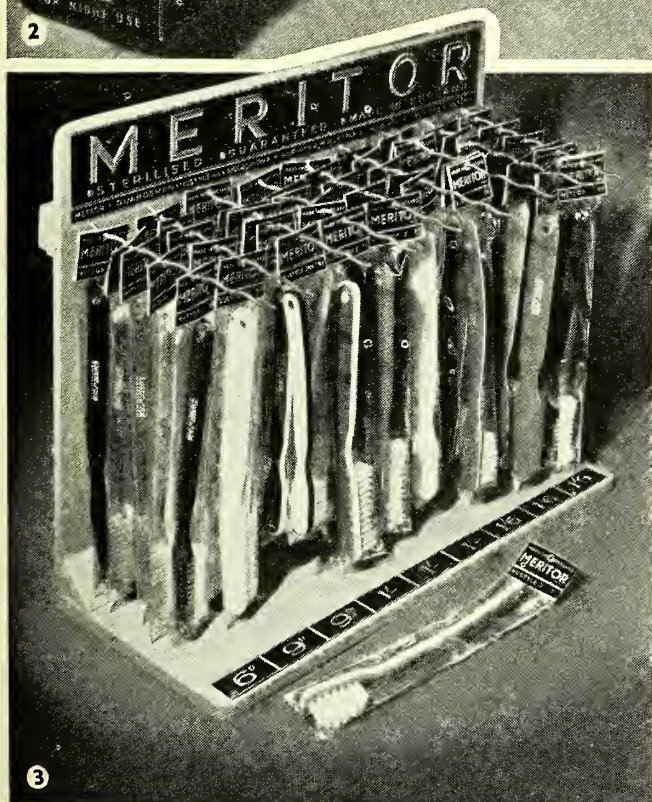
1. JOHNSON & JOHNSON (GREAT BRITAIN), LTD. (Tek toothbrushes).—Silver award in Class 12 (cardboard display incorporating actual or dummy package as part of its design). Designers, Ford, Shapland & Co., Ltd. The "bathroom tumbler" consists of acetate sheet.

2. TOKALON, LTD. (Biocel skinfood).—Silver award in Class 13 (cardboard counter-display selling-unit for packaged goods). Designers, R. L. Shirley & Co., Ltd.

3. S. MAW, SON & SONS, LTD. (Meritor toothbrushes).—Award of merit in Class 14 (display or selling unit in wood, metal or plastics for packaged goods). Designer, Vernon S. Porter.

4. T. J. SMITH & NEPHEW, LTD. (Elastoplast adhesive plaster).—Award of merit in Class 7 (package designed for consumer convenience). Designer, J. H. Castell.

5. ST. ANDREWS MILLS, LTD. (Andrex paper handkerchiefs).—Award of merit in Class 7 (package designed for consumer convenience). Designers, E. S. & A. Robinson, Ltd.



Trade Notes

FLY-CATCHERS are advertised in this issue by Kay Brothers, Ltd., Kayborough, Reddish, Stockport.

BONUS OFFER.—G. Jackson & Sons, Ltd., Harpurhey, Manchester, are making a bonus offer in respect of Jackson's Febrifuge. This is available until September 10.

CUPAL, LTD., manufacturing chemists, Blackburn, have sent us a copy of their new catalogue of packed preparations. It is an excellently produced list in loose leaf form, and a copy is obtainable on application.

APOLLO LIQUORICE.—Macandrews & Forbes, Ltd., Bush House, London, W.C.2, supply as Apollo brand a pure stick liquorice juice of the highest quality in 1 oz. divided, as well as 2 oz. divided sticks, also 3 oz. and 4 oz.

CLOSED FOR STOCK-TAKING.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, inform us that their warehouses will be closed for stock-taking on August 31, on which date only emergency orders can be executed.

STAFFORD ALLEN & SONS, LTD., ask us again to direct attention to their new address, 20-42 Wharf Road, London, N.1. Letters incorrectly addressed are being delivered by a later post, with corresponding delay in the dispatch of orders.

PLASTRIP BANDAGE.—Hirst, Brooke & Hirst, Ltd., manufacturing chemists, Leeds, have been appointed the sole selling agents in the Yorkshire area for Plastrip antiseptic adhesive bandage, a product manufactured by the Duke Pharmaceutical Co., Ltd.

HOTEL ACCOMMODATION.—When on a visit to London chemists will find that the Bonnington Hotel, Southampton Row, London, W.C.1, is a central and convenient place to stay. Some details of the tariff are given in the advertisement pages of this issue.

DILAUDID.—Knoll, Ltd., 60 Welbeck Street, London, W.1, inform us that besides the ampoules and oral tablets of Dilaudid (dihydromorphinone) tablets for hypodermic use are now available. They are issued in two strengths—gr. 1/32 and gr. 1/20.

GALENICALS.—Wright, Layman & Unney, Ltd., 44-50 Southwark Street, London, S.E.1, call attention elsewhere in this issue to a number of pharmaceutical preparations and their special properties. The company also supply a wide range of packed pharmaceuticals and toilet preparations in addition to bulk drugs.

CHRISTMAS SHOWROOMS.—T. F. Bristow & Co., Ltd., Colindale, London, N.W.9, published in last week's *C. & D.* a list of the places and dates at which they were holding special displays for the Christmas trade. It should be noted that the first of these shows is at Glasgow (August 22 to 26) and the next at Edinburgh (August 29 to September 2).

METHYL SALICYLATE.—With the approach of the autumn and winter seasons, the demand for remedies for rheumatism becomes greatly increased, and many of these remedies contain methyl salicylate. Monsanto Chemicals, Ltd., Victoria Station House, London, S.W.1, supply a water-white quality of methyl salicylate which is British made.

YARDLEY BEAUTY BOOK.—Yardley & Co., Ltd., Sackville House, 40 Piccadilly, London, W.1, have sent us a copy of their new publication dealing with the Yardley way to beauty. In addition to describing and illustrating the manner of using the company's products in the treatment of the skin, there is included a series of cards depicting massage movements.

HEPARIN B.D.H.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, are issuing as Heparin B.D.H. the blood anti-coagulant contained in liver. The company's product possesses an activity of 500 units per mgm., and is supplied for clinical use in half per cent., 1 per cent. and 5 per cent. solution, also in the form of heparinised tubes which are prepared by evaporating a solution of heparin in a glass tube leaving a smear on the inside. A booklet giving details of the standardisation, clinical application, and so forth, has been issued by the B.D.H., and a copy will be sent to any chemist who writes for it.

CARNEGIE BROTHERS, LTD., 227-229 Essex Road, London, N., invite buyers of aloin, bismuth, chrysarobin, podophyllin, alkaloid and calicylates, to write to them for quotations.

HEPARIN.—Roche Products, Ltd., 51 Bowes Road, London, N.13, have recently introduced as Heparin 318 Roche a preparation indicated in conditions in which retardation of coagulation is desirable. As a normal constituent of human blood, it inhibits the coagulation without modifying the composition. It is especially employed in blood transfusion work and for the prevention of thrombosis. In man, the length of anti-coagulant process is dependent on individual factors. 0.5 c.c., i.e. 2.5 mgm. Heparin 318 Roche corresponding to 1,000 inhibiting units can inhibit coagulation of 100 c.c. human blood for 1-60 hours. The same anti-coagulant effect is obtained with one-quarter to one-third of this quantity if paraffined vessels are used. The product is issued in 5-c.c. rubber-capped phials, each containing 25 mgm. heparin, i.e. 10,000 inhibiting units.

TEXTBOOK OF PHOTOGRAPHY.—Ilford, Ltd., Ilford, Essex, have just issued a small attractive publication entitled "A Selo Textbook of Amateur Photography," which contains information of much assistance not only to beginners, but also to amateurs who like to keep abreast of the times in photographic developments. The book, which is printed on art paper (pp. 236), is well illustrated and contains chapters dealing with cameras and lenses, dark-room technique and materials, some of the more common faults in negatives, and also a short chapter on cinematography. A useful glossary of photographic and cinematographic terms is included at the end of the book. The price is 1s. 6d. Messrs. Ilford have recently placed on the market under the title of Selo H.P.2 a roll film for all cameras taking 35 mm. perforated film. This film is described as the finest film available with the finest grain, and is bound to appeal to users of miniature cameras. Messrs. Ilford publish two cards giving Selo speed numbers and meter settings. Copies may be obtained on application.

Crossword Solution

BELOW is given the solution to the *C. & D.* pharmaceutical crossword (see Educational Number, August 13, p. 148). Although included primarily as a test for students it has aroused considerable interest among those who have already succeeded in qualifying.

T	A	R	A	K	T	O	G	E	N	O	S	K	U	R	Z	I	I			
P	N	A				O	N	A		E	X	P	E	C	E	N	C			
A	N	O	O	Y	N	E		D		I	T		S	P	U	M	A			
R	A	O	I	A	N		L	I	Q	A	M	M	O	N	C	H	L	O	R	
A		E	O	O			I		U	N	E		N	D	Y	A		B		
O	O		A		K	E	G		A	T		E	E	L		R	S	O		
I	P	E	C	A	C		H		T	I	T	R		I		E	O	N		
C	I		T		N	I	T			M	U	G	W	O	R	T		W	A	
H	U	M	I	O		T	E		R	O						I	O	N	S	
L	M		V	A	L	E	R	I	A	N	A		K	I	L	N			S	
O			I	D	E	M			I	D	I	O	M	A	T	I	C		F	I
R	O	O	T						I	O		O	L		E	T	I	A	M	
B	H		Y	H	P	O	R	T	A			R	I	P		C		T	I	
E	M	F		O		A	N	T	E			O		B	R	O	M	A	L	
N		O	V		O	P	C		I	A		A	R	C		L		L	A	
Z		V	A	D		R		R	N	R		N		H	C	O		T		
E	L	E	C	T	R	O	M	A	G	N	E	T		T	A	H	I	T	I	
N	O	N	U	S		P		P				U		A	B	I	I	C	I	O
E		T	O		B	O	R	I	C		O	A	S			C	T		N	
	C	I	L	I	A	T	E	D	E	P	I	T	H	E	L	I	U	M		

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1938, p. 302.

(From "The Trade Marks Journal," August 10, 1938)

- "STAR DUST"; for chemicals and preparations for destroying marine pests, including depredatory fish (1) (2). By American-British Chemical Supplies, Inc., 180 Madison Avenue, New York. 585,622/3. (Associated.)
- "COOPER PRODUCT MATATIK," with device of circle round coat-of-arms; for agricultural, horticultural and veterinary preparations (2). By Cooper, McDougall & Robertson, Ltd., Ravens Lane, Berkhamsted, Herts. 584,937. (Associated.)
- "PALACE," with picture of same; for agricultural and veterinary chemicals, etc. (2). By W. B. Stephens, Ltd., 98 Union Street, Plymouth. 585,330. (Associated.)
- "ARNCO"; for fertilisers (2). By G. B. Arnold & Co., 16 Water Lane, Great Tower Street, London, E.C.3. 585,603. (Associated.)
- "JOCODYL"; for medicinal chemicals (3). By Chemische Fabriken Dr. Joachim Wiernik & Co., A.G. 7 Oranienstrasse, Berlin-Waidmannslust, Germany. 583,051.
- "INOZOL"; for preparations for rheumatic and traumatic conditions (3). By Robert Blackie, 16 Melon Road, London, S.E.15. 584,764.
- "HEMOSTYL" and "HEMOXYL"; for medicinal chemicals (3). By Roussel Laboratories, Ltd., 1 Finsbury Square, London, E.C.2. 583,620/586,474. (Associated.)
- "NIBLITS"; for medicated lozenges, etc. (3). By Nobletts, Ltd., 11 Houghton Street, Liverpool, 1. 584,825. (Associated.)
- "NITAG"; for artificially produced radium activated liquids and medicated oils for massage (3). By J. W. Bell, 36 St. Lukes Road, Cheltenham. 584,618.
- "TRAKOID"; for medicinal chemicals, excluding soap (3). By J. Poulson, 329 County Chambers, Corporation Street, Birmingham, 2. 585,531.
- "DUBARS"; for medicated preparations, excluding soap. "GROIDS"; for medicated preparations (3). By John Durant, Ltd., Murray Road, Bedminster, Bristol 3. 585,666/733.
- "PONFA"; for all goods, excluding soap (3). By Edge's, Ltd., 5 Garsden Avenue, Blackburn. 585,723.
- "BUXSTONE"; for medicated wines (3). By T. A. Buxton, Ltd., 17 College Hill, London, E.C.4. 586,329.
- "PREVCON"; for all goods (3). By H. D. Wyse, 23 Hilgrove Road, London, N.W.6. 586,439. (Associated.)
- "DAGENAN"; for medicinal chemicals (3). By May & Baker, Ltd., 42 St. Paul's Churchyard, London, E.C.4. 586,732. (Associated.)
- "EYSCRIPT"; for preparations for the eyes (3). By Cupal, Ltd., Phoenix Mill, King Street Bridge, Blackburn. 586,770.
- "MORNING 'SHAYNGE' MOODS"; for shaving soap (48). By J. E. Herbert, 11 Margaret Grove, Harborne, Birmingham, 17. 578,342.
- "QUICKIES"; for perfumery (48). By Tattoo, Ltd., Eldon Street House, Eldon Street, London, E.C.2. 584,169.
- "CHESELINE"; for non-medicated hair tonic, dressing and shampoo (48). By Chesebrough Manufacturing Co. Consolidated, 17 State Street, New York. 584,479.

(From "The Trade Marks Journal," August 17, 1938)

- "DIASEL"; for manufacturing chemicals (1). By Mouldrite, Ltd., Imperial Chemical House, London, S.W.1. 581,385.
- "DENTALITE"; for manufacturing chemicals (1). By F. A. Hughes & Co., Ltd., Abbey House, Baker Street, London, N.W.1. 582,904. (Associated.)
- "ALKOS"; for water-softening preparations (1). By W. Boby & Co., Ltd., 62 Brook Street, London, W.1. 584,626.
- "MITIN MOTHPROOF" (word "mothproof" disclaimed); for moth repellents and destroyers (2). By J. R. Geigy, A.-G., 215 Schwarzwaldallee, Basle, 16, Switzerland. 581,357.
- "SLA-MO"; for moth repellents and destroyers (2). By E. E. Russell, 17 Station Road, Letchworth, Herts. 585,898.
- "REVESTONE"; for hormone preparations (3). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle, Switzerland. 584,427.
- "SALEXON"; for medicinal chemicals (3). By D. L. Byrne, 7 Divis Street, Belfast, Northern Ireland. 585,510.
- "REODERM"; for vaccines for acne (3). By Bayer Products, Ltd., 31 to 34 Basinghall Street, London, E.C.2. 586,256.
- "MICLAB"; for antiseptic preparations (3). By Micron Laboratories, Ltd., 17 Wells Street, London, W.1. 586,231.
- "JESTS"; for indigestion preparations (3). By L. R. Piercy, 75-77 Worship Street, London, E.C.2. 586,284.

Marriages

ARMISTEAD—HANKEY.—At Bolton Abbey, on August 16, Hubert G. Armistead, M.P.S., Brierfield, to Ina Hankey, M.P.S.

WOKES—SHELBOURN.—At Lincoln, on August 13, Arthur Wokes, M.P.S., Liverpool, to E. G. Shelbourn.

Deaths

DEAVILLE.—The funeral of the late Mr. Benjamin Deaville, managing director of Newball & Mason, Ltd., manufacturing chemists, Nottingham, took place on August 18. Prior to the interment at Wilford Hill Cemetery a service was conducted at St. Augustine's Church. Among those present were Messrs. A. Poxon and F. W. Moulds (directors) and a large number of the employees of the company, also Mr. F. A. Bates, M.P.S. (Nottingham Branch of the Pharmaceutical Society).

FOWLER.—Suddenly, at the Beeches Cottage, Carshalton, Surrey, on August 19, Dora Louise, the dearly-beloved wife of W. H. Fowler, Ph.C., secretary of the Surrey Pharmaceutical Committee.

RICHARDSON.—At 38 Observatory Road, London, S.W.14, on August 23, Mr. William Jenkinson Richardson, chemist and druggist, aged seventy. He served his apprenticeship in Kirkby Lonsdale, and gained further experience in Harrogate before he migrated to Edinburgh, where he built up a very successful business in Comiston Road. In 1926 he retired from active business (Mr. A. McCullam succeeding him), following his two sons to London, but maintained an active interest in his profession. Mr. Richardson was a worthy representative of the old school of chemists. Although of a shy and retiring disposition, he possessed the faculty of making steadfast friends; and many medical practitioners practising in various parts of the world who first made his acquaintance and profited by his help as medical students will regret the passing of a kindly, sympathetic, unobtrusive, loyal friend. He leaves a widow and two sons.

Personalities

ALDERMAN C. A. CRITCHLEY, J.P., Ph.C., has been appointed a representative of the Blackburn Corporation on the local Insurance Committee.

SIR ALBERT SEWARD has been elected president of the British Association for the year 1939. He was professor of botany at Cambridge for twenty years and is an authority on fossil plants. He is foreign secretary of the Royal Society, and until recently was Master of Downing College, Cambridge.

At Swindon, on August 18, several presentations were made to Mr. Frank H. Jolly, M.P.S., who has recently retired after twenty-seven years as manager at the Swindon branch of Boots, Ltd. Many chemists who served their apprenticeship in Swindon were present and paid tribute to Mr. Jolly. Mr. C. E. Glenn, territorial general manager, presented Mr. Jolly with two easy chairs on behalf of Boots, Ltd. Mr. Bell, on behalf of the present staff at the Swindon branch, handed to Mr. Jolly an inscribed silver cigarette case, and Mrs. Jolly received from the staff a travelling case. On behalf of Mr. Jolly's former apprentices, Mr. H. J. Davies, M.P.S., presented him with a box of cigars.

Recent Wills

MR. THOMAS MARPLES, M.P.S., Baslow, Derbyshire, who died on May 4, left estate of the gross value of £14,037, with net personality £13,405.

MR. THOMAS EDWARD LESCHER, O.B.E., J.P., 16 Oxford Road, Birkdale, Southport, Lancs, managing director of Evans Sons Lescher & Webb, Ltd., manufacturing chemists, Liverpool and London, who died on April 24, left £15,871, with net personality £14,154.



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Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/23 Bermex	india - rubber	W/12 Scott's	Wasp	Poison
sheeting		B/24 Sonnasta		
S/24 Mitchell's	Devon barley	F/24 Vitalin	(Vitamin E)	
sugar		B/23 Windsor	hot - water	
W/19 Protoxyl	tablets		bottles	

THE

CHEMIST AND DRUGGIST

VOL. CXXIX

August 27, 1938

NO. 3055

CONTENTS

	PAGE		PAGE
Blackie's New Premises ...	210	Indian Chemical Trade ...	220
Books, New	217	Information Department ...	214
British Association	208	Irish Notes	205
Business Changes	205	Legal Reports	207
Cetyl Alcohol in Cosmetics	219	Marriages	213
Chicle into Chewing Gum ...	218	Medical Abstracts	209
Company News	207	News of the Week	205
Correspondence:—		N.H.I. Regulations	207
Letters	225	Packaging Awards	211
Miscellaneous Inquiries ...	226	Personalities	213
Points from Letters	226	Recent Wills	213
Crossword, Solution	212	Retrospect	226
Deaths	213	Safety in Chemical Works	217
Editorial Articles:—		Scottish Notes	205
Holidays with Pay	215	Sudan Gum Acacia Exports	224
Recession in International		Topical Reflections	206
Trade	215	Trade Marks	213
World Supplies of Ergot	216	Trade Notes	212
Negative and Positive ...	216	Trade Report	221
Imperial and Foreign News	206	Zanzibar Clove Report ...	220

Holidays with Pay

UNTIL quite recently, when the Holidays with Pay Act, 1938, became law (the Royal Assent was given on July 29), paid holidays were not required by statute in this country, except in one case—i.e., under the Shops (Hours of Closing) Act, 1928. Under this Act a local authority in a holiday resort or sea-fishing town might provide that during the season shops could be kept open after the hours normally fixed for compulsory closing, but if the shop assistants were employed for extra hours, they were entitled to compensatory holidays with full pay after the season ended. It is estimated that already eight million workers are provided with holidays with pay and that the recently enacted legislation will increase that number to over ten million. In addition, the Government is likely to introduce further legislation in the next parliamentary session by which it is contemplated that another two to three million additional workers will be affected in this manner. Even at the present, a good deal of difficulty arises during the summer from the shortness of the general holiday season and the congestion resulting from many people taking their holidays at the same time, and already attempts are being made to introduce staggered holidays by the proposal to alter the date of school examinations. It seems certain that the character of some holiday resorts will change, and most will have to deal with a larger number, and possibly different types of visitors. Holidays with pay are generally recognised throughout the drug trade, and as there is so far no wage-regulating authority the new legislation has no direct bearing on the industry at present. The drug trade, and particularly the retail section of it, may be advantageously and otherwise affected by the additional number of people visiting seaside towns during the summer months. For example, the demand for locums and additional staff, qualified and unqualified, will be considerably greater than hitherto, and with more money to spend there should be a greater demand for summertime cosmetics such as suntan oils, creams and similar preparations. Photographic sales, too, should receive a stimulus from the extra money which

the public will have to spend, and the dealer who is likely to make most of his opportunities is the one who can offer the best services, not forgetting to educate the user of a camera as regards suitable film and exposure of it. The rush to the seaside will also have the effect not only of increasing the temporary population of established resorts, but will render necessary the establishment of new ones; in fact, a number of these have already been projected in the form of extensive camps for the lower-paid wage-earner and his dependents. Chemists would do well to keep an eye on areas growing in this fashion, since they provide good opportunities for new business, always bearing in mind Section 8 of the Pharmacy and Poisons Act, 1933, which states:—

A registered pharmacist carrying on a business which comprises the retail sale of drugs shall be an authorised seller of poisons within the meaning of this Act if the following conditions are complied with—

- (a) in each set of premises where the business is carried on, the business must, so far as concerns the retail sale of drugs, be under the personal control of the pharmacist himself or of some other registered pharmacist; and
- (b) the name and certificate of registration of the person having the control of the business as aforesaid must be conspicuously exhibited in the premises.

It will be recalled that the effect of a recent High Court decision was of considerable importance regarding personal control, and was to the effect that a business which is regularly left unattended by a pharmacist for some hours each day is not under the personal control of a pharmacist; also that the mere sale of medicines (without regard to the nature of the business as a whole) is such as to make the business concerned one which comprises the retail sale of drugs and, therefore, if owned by an authorised seller of poisons, must be under qualified management even though no poisons are sold or dispensed.

An interesting point arises in regard to unemployment insurance. The position in regard to holidays is that a contribution is payable for a holiday period if the employer makes the worker a payment in respect of the holiday period which can be regarded as remuneration. The remuneration must, however, be in respect of the holiday period and not deferred pay or pay in respect of previous weeks of service. If the payment is gratuitous it is not regarded as remuneration, but a payment made in accordance with established practice is not considered gratuitous. Similar conditions govern the payment of national health and pensions insurance contributions during holidays.

Recession in International Trade

It was anticipated that the volume of our international trade during July would show little if any improvement on returns of the preceding months of this year. Unfortunately, the contraction, particularly in our exports, was even more pronounced than in the previous six months of the year. The figures given in the table "All classes of merchandise" show our imports to be down by well over £11,000,000, while our exports and re-exports fell by nearly £12,000,000 compared with the returns for July 1937. This recession in our seaboard trade is, no doubt, partly due to the continued unsettled political conditions in Central Europe and the East, but the main

factor that has been, and still is, preventing any revival in world trade is the industrial depression in the United States of America. As the world's largest consumer of all classes of raw materials and manufactured goods the Western Continent is the dominating factor in international trade, and to-day much more so than when conditions were normal in Europe. It remains to be seen whether a revival of trade takes place in the West, which, according to New York reports, is anticipated in the autumn.

All Classes of Merchandise	Imports	Exports of U.K. goods	Total exports including Re-exports
	£	£	£
July, 1938	73,938,911	37,469,969	42,025,182
" 1937	85,504,170	47,594,677	54,398,113
" 1936	68,735,352	40,085,922	45,127,643
Jan.-July, 1938 ...	543,134,848	270,628,328	307,981,492
" 1937	569,020,066	298,924,719	346,270,368
" 1936	471,044,417	247,966,402	285,408,357

The "Chemicals, etc.," group did fairly well during July, and the credit balance is being well maintained with our total exports for the month and for the seven-month period amounting to approximately double the value of our imports. Imports of proprietary medicines again increased in value with a total of £82,280 in July and £471,086 for the seven months, against £60,930 and £353,336 in the corresponding periods of 1937. The chief

Chemicals, Drugs, Dyes and Colours	July			Jan.-July		
	1938	1937	1936	1938	1937	1936
	£'000	£'000	£'000	£'000	£'000	£'000
Imports	948	1,099	1,026	6,973	7,623	6,994
Exports of U.K. manufacture ...	1,884	2,152	1,670	12,158	14,734	12,676
Re-exports	33	40	40	237	278	264

sources of supply of chemicals, etc., of all descriptions in July were: Germany, £301,897; United States of America, £169,432; Argentine, £96,020; France, £85,437; Switzerland, £51,952; Belgium, £50,840; and Canada, £44,210. The leading purchasers of our July shipments were: India, £193,611; Australia, £193,405; Union of South Africa, £119,398; Canada, £86,666; New Zealand, £76,416; and Egypt, £58,593. The United States took goods to the value of only £43,403, compared with £96,086 in July 1937, and China, £10,097, against £58,718 in the corresponding month of 1937. Spain's purchases amounted to only £8,881, against £20,433 in July 1937. Shipments to Germany were halved at £14,127 last month, compared with £28,294 in July 1937. The July value of our shipments of proprietary medicines declined to £111,796, as against £120,721 in the corresponding month of 1937. The chief purchasers of these products were: India, £24,348 (£28,642 in July 1937); Australia, £11,553 (£16,949 in July 1937); Union of South Africa, £10,113 (£12,121 in July 1937). Empire destinations accounted for £81,961, and the balance, £29,835, was purchased by foreign countries, chiefly France.

World Supplies of Ergot

FOR some time very little ergot has been coming in direct from Spain, owing to the disturbed conditions in that country. Fair quantities have, however, been imported indirectly. The chief source from which we have been drawing supplies has been Portugal. In mid-June some of the remaining stocks of old crop were sold c.i.f. London at about 3s. 7½d. per lb., after which up to 4s. c.i.f. was asked, with no buyers. Dealers were not prepared to pay this comparatively high price for old material, and preferred to await quotations for new season's, which, it was thought, might well be available at a more reasonable figure. The first quotations for new crop Portuguese received in early July were, however, at 4s. c.i.f., and by the end of that month the lowest offer was about 5s. 6d., c.i.f., and in early August as much as 6s. was asked. Shippers reported that, owing to a very dry season, the crop was a particularly poor one. At the same time Polish seed was available at 3s. 10½d. to 4s. c.i.f., cheapening in mid-August to 3s. 6d. c.i.f. Current shipment quotations are 5s. 6d. for Portuguese and 3s. 7½d. for Polish. The difference in value of the two sources is unusual, the normal premium for Portuguese being sixpence to ninepence, based on the usually inferior Polish material. This season, however, most of the parcels of Polish which have arrived here have been good bold lots. Reports from Russia state that it is unlikely there will be any surplus available for export this season, and in any case shipment could not be made before October. There is no news of any new crop of Spanish: it seems probable that practically nothing has been collected. The limited supplies available from Bulgaria are a negligible factor in the market. The general position certainly suggests that the depleted supplies available for shipment this season may be inadequate to meet the world's normal requirements, and that comparatively high prices are likely to continue to operate. It is of interest to note there is no source of supply for commercial quantities of this important commodity within the British Empire.

Negative and Positive

THE difficulties resulting from the existence of both professional and commercial interests in a business are familiar to all chemists, and it is evident that the minds of professional photographers are often exercised over corresponding problems, as instanced by an article in the current issue of the "British Journal of Photography." Following a mention of some of the lines sold by chemists the writer states "the professional photographers' hands continue tied almost exclusively to the narrow business side of his profession as an artist," and then raises the question "whether the professional is really making the fine harvest he might, or any harvest whatever, out of the requirements of the millions of snapping amateurs throughout the country." After calling attention to the service offered by the chemist, he states: "... it is perhaps not always recognised that there is an increasing number of 'photographic chemists' (self-styled though they may be) who are by no means ignorant of the subject and are willing to pass their views on to the man or girl who looks and laments at the 'snaps' of a fortnight-by-the-sea. Suburban chemists in all directions are taking up photography and becoming wise on technical points and adept demonstrators of the fascinating tricks of the cameras they have for sale.... The chemist, of course, works under several advantages in the way of an alluring shop in a busy street, glittering and colourful windows, enticing perfumes wafted even beyond his doors and, usually, a tempting display of wholesale firms' apparatus and prints of all kinds. Nevertheless, when both sides of the question are weighed, it looks as though the professional photographer has not offered his fullest attention and the best of his technical ability to the young generation of camera owners. At present the D. and P. customer comes a long way behind the client who calls for a sitting." Few chemists of to-day can afford to rely entirely on the professional side of their calling and so must make their "harvest" from the commercial. It is noteworthy that they are "becoming wise on technical points and adept demonstrators" though some credit must be given to the chemists of the 'eighties whose business acumen contributed in no small measure to the evolution of the modern photographic dealer.

New Books

Driver, J. E. *Tables of Qualitative Chemical Analyses*. 8½ in. by 5½ in. Pp. 38. 1s. Oxford University Press, Amen House, Warwick Square, London, E.C.4. [This is a revised edition of Bentley and Driver's tables which give in a concise form a system of qualitative analyses which is now practically standardised. The booklet has been enlarged by inclusion of explanatory notes on the reactions of the commoner basic and acidic radicles.]

Codex Revision Committee. *Pharmaceutical Pocket Book*, 1938. Pp. 370 + x. 5s. Pharmaceutical Press, 23 Bloomsbury Square, London, W.C.1. [This is the thirteenth edition of this book, which is published under the general supervision of the Codex Revision Committee, Mr. C. E. Corfield being editor. A new section has been added on poison law, and the other sections have been fully revised. Those concerned with drugs and preparations of the B.P. 1932 are completed by the references to substances mentioned in the addendum.]

Jenkins, G. L., and Du Mez, A. G. *Quantitative Pharmaceutical Chemistry*. 8½ in. by 5½ in. Pp. 466. McGraw-Hill Publishing Co., Ltd., Aldwych House, London, W.C.2. [Numerous changes in this, the second, edition of the work have been made in the official methods of analysis of pharmaceutical materials in the U.S.P. xi and in the NF. vi. In addition the contents have been rearranged into three parts instead of four; the theory section has been brought up to date and new exercises have been added.]

Spease, Edward. *Pharmaceutical Mathematics*. 8½ in. by 5½ in. Pp. 150. 10s. 6d. McGraw-Hill Publishing Co., Ltd., Aldwych House, London, W.C.2. [This is the second edition of the work intended for the teaching of mathematics to pharmacy and nursing students. The general plan of the first edition of this useful text-book has been followed, but the chapters upon manufacturing in quantity and percentage solutions have been rewritten and the chapter on profit and loss improved. Professor Spease is the Dean of the School of Pharmacy, Western Reserve University, and Directing Pharmacist, the University Hospitals of Cleveland. While this text-book is primarily written round the U.S.P. it is bound to prove

of value to students and pharmacists in this country since the principles outlined equally apply.]

Starck, H. P. *Principles of Organic Chemistry*. 8 in. by 5½ in. Pp. 664. 12s. 6d. Illustrated. Blackie & Son, Ltd., 50 Old Bailey, London. [This text-book is intended for the use of students reading for the pharmaceutical, medical and other examinations in chemistry. The work is divided into two sections, theoretical and practical, and the student will find that simplicity in presenting first principles is the keynote of the earlier section of the book. The practical section includes tests, observations, etc., to supplement the theoretical section. Special tests have been added for the benefit of pharmaceutical and medical students. One outstanding feature of this work is the concise method adopted for each monograph. For example, under Glycollic Acid is given occurrence, formation, manufacturing process, properties and reactions. This system should materially assist rapid assimilation of the subject matter.]

Wilson, Albert. *The Flora of Westmorland*. 8½ in. by 5½ in. Pp. 414. 25s. Obtainable from the author, Tor-y-Coed, Ro Wen, Conway. [Some indication of the magnitude of work required to compile a guide to the flora of any district would be easily understood even by a cursory glance at this fascinating volume. The author modestly refrains from any reference to this aspect, but gives an exhaustive account of the flowering plants, ferns, liverworts and mosses so far known to occur. Particulars regarding localities, habitats, distribution, time of flowering, etc., are given. There is also included a description of the physical geography, geology, climate, and a reference to some early Westmorland field botanists. Excellent reproductions from 37 photographs of scenery and plants growing in their natural habitats appear throughout, and a map of the County according to contours of altitude is enclosed in a pocket at the end of the book. The method of arrangement of the flora and a key to the abbreviations precedes the lists of plants, which are placed under their natural orders. This is stated to be the first complete flora dealing exclusively with the County of Westmorland.]

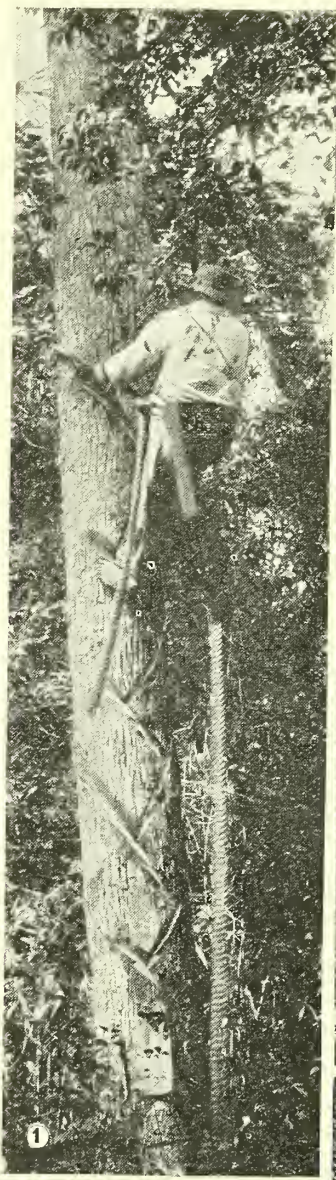
Safety in Chemical Works

THE Model Safety Rules for use in chemical works which were issued by the Association of British Chemical Manufacturers have been brought up to date, and a new edition has recently been issued which takes into account the new Factories Act, 1937 (Safety Rules for Use in Chemical Works, Part I, Model Rules). The new publication summarises in over a hundred rules the precautions to be taken in factories designed for chemical operations, and forms an introduction to Part II of the Safety Rules—giving fuller details of the procedure to be followed and the dangers which arise from non-observance of them—which it is intended to publish at a later date. The rules have been designed to apply to all new and existing chemical works, and in many instances statutory force has been given to them by virtue of the Factories Act, 1937, or regulations issued by the Home Office and which affect all types of works. The chemical manufacturer who consults these rules will undoubtedly feel that in his own interests as much observance should be given to them as would be given to regulations imposed upon him by the law. In order that subsequent editions of this publication shall be as comprehensive as possible chemical manufacturers are invited to submit to the Association their suggestions on problems met with in the working of their factories. To give a clearer idea of the detailed nature of these rules the following are extracts from them.

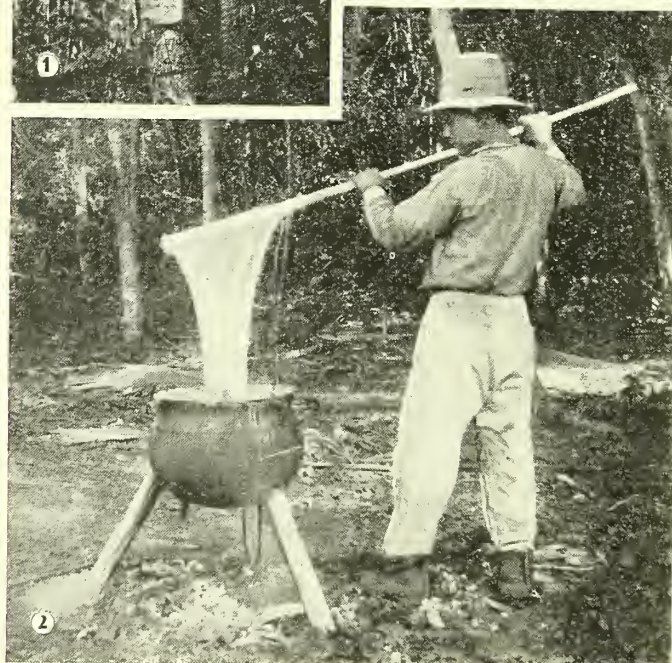
Steps should be taken by manufacturers contemplating any new venture connected with chemical production to ascertain all possible risks involved in the processes to be carried out, or which might occur as a result of some chemical reaction. Properties of raw materials should be studied and provision made for dealing with any dangerous substances. Accident and sickness statistics, it is pointed out, are of considerable import-

ance, and these should indicate the number of man-hours lost and all other data necessary to determine the frequency and severity rates. Records, too, should be kept of occurrences which might have led to accidents. Information and statistics thus obtained should be the subject of frequent investigation by the management, with a view to the improvement of the safety measures in the factory. It is recommended that safety committees should be established as part of the safety scheme, and when possible the concern should become attached to some independent safety association and also examine and obtain all relevant Government literature for circulation. Concerning the design and operation of plant attended by fire or explosion risks, buildings and plant should be sited with due regard for the dangers which might arise from the processes involved. Detailed consideration is given in separate rules to the procedure to be observed in minimising risks in respect of fire and explosions, including particulars of escape from buildings, protection from lightning by suitable apparatus, construction of plant, drains and flues to reduce to a minimum the escape or spread of any liquid, gas, fume or dust likely to cause fire or explosion, precautions to be taken against the dangers from static electricity which may arise from a great many causes, and some safe methods of providing heat for the different processes involved in a chemical works. In another section of the publication rules are given for the design and operation of plant involving the risks from gas, vapour, fume or dust. In addition to rules for the design and operation of plant involving dangers from contact with corrosive or deleterious substances, the publication includes sections on fire protection, first aid and welfare of factory workers. Copies of the model rules can be obtained from the secretary of the Association, 166 Piccadilly, London, W.1, price 5s.

Chicle into Chewing Gum

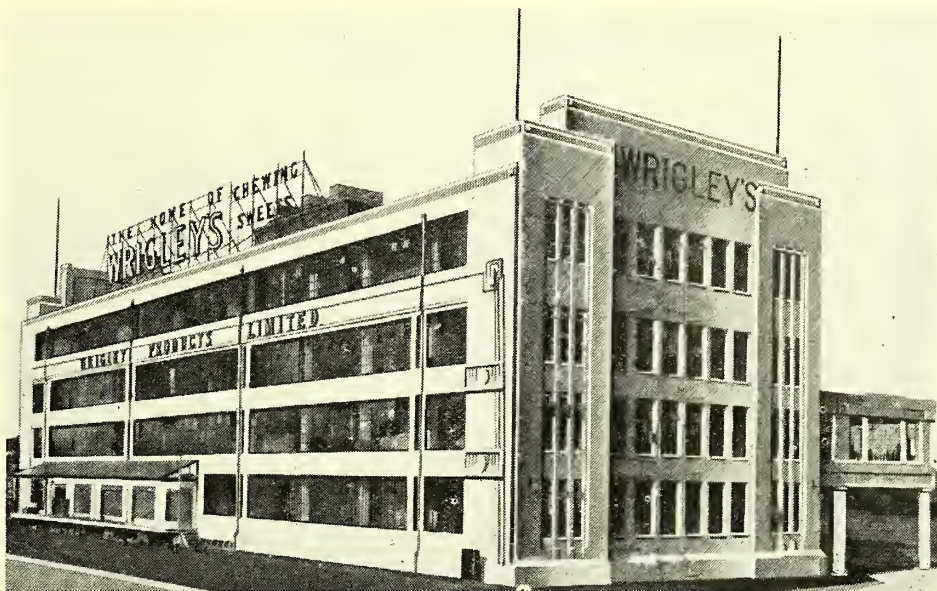


1. Tapping the sapodilla tree for chicle latex.
2. Completion of the boiling; the fire has been withdrawn and the "chiclero" is cooling the chicle by exposing as much surface as possible.
3. Moulding the chicle; the operatives' hands are kept wet to prevent sticking.
4. Preparing for transport; the chicle is left overnight and is then ready for wrapping in bales of about 100 lb. weight each.



ON August 22 a display, centred around British Honduras chicle, was added to the permanent exhibition of Empire produce at the Imperial Institute, South Kensington. Chicle, the concrete juice of the sapodilla tree, *Achras sapota*, forms the basis from which chewing gum is made by the addition of flavouring agents and sugar. Its importance has increased enormously in recent years, owing not merely to spread of the chewing-gum habit, but also to its recent introduction as an emergency flying ration by the Royal Air Force and to its being recommended in some quarters in the treatment of gastric complaints, certain mouth and throat troubles, and in the recovery stages of some children's ailments. The new exhibit at South Kensington traces the evolution of the sweetmeat, by means of a series of photographs, from its source in the tropical forests of British Honduras, through the British factory, to the finished product. The latex is obtained from the tree in much the same way as rubber. V-shaped cuts are made in the bark with a cutlass or *machete*. The cuts are extended up the trunk for twenty to thirty feet, the trappers climbing and supporting themselves by means of "climbing bands" of rope. The latex trickles down the cuts and is collected in a receptacle fixed at the base of the tree. Coagulation is hastened by the application of heat, and to this end the collected latex is heated in an open cauldron supported over a fire upon a primitive tripod. During the boiling the material is stirred with a pole to expose it continually to the air over as large a surface as possible, until a sample taken from the pot is found to set on cooling. When this stage is reached, and the latex has become cool enough to handle, the product is poured on to a canvas

sheet and kneaded into blocks weighing from five to twenty pounds apiece. The blocks are left overnight and then packed for export in bales weighing about 100 lb. each. A typical block, ready for baling, appears in the exhibit. On arrival in this country the chicle is ground, filtered, refined and sterilised. In this finished condition it becomes the true raw material for chewing sweets, and only requires the addition of flavouring agents and sugar, rolling out, cutting and packing to produce the finished sweetmeat. The chief British importers of chicle are Wrigley Products, Ltd., at whose modern factory at North Wembley the raw material is converted into the well-known wrapped product in conditions of "surgical" cleanliness. Special double windows in the factory ensure unvarying temperature for manufacture.



Factory of Wrigley Products, Ltd., North Wembley

Cetyl Alcohol in Cosmetics

CETYL alcohol, $C_{18}H_{37}OH$, occurs as an odourless, tasteless, solid fatty alcohol of wax-like consistency; it exists in many waxes of animal origin, particularly spermaceti, from which it is generally obtained. Another source is vegetable oils such as cocoanut, from which it is obtained by hydrogenation. When pure, cetyl alcohol has a setting point of 47° to 48° C. and its acid, ester and iodine value are nil. In reaction it is neutral and it blends well with acid or alkaline bodies used in cosmetics. Further, it does not oxidise or become rancid, possesses high dispersive power and increases the "fineness" of emulsions and their stability. It is non-irritant to the skin.

Cetyl alcohol is eminently suitable for incorporation, in varying proportions, in a large number of cosmetic preparations and produces a velvety feeling on the skin when applied in suitable admixture. It has been suggested that cetyl alcohol may be of therapeutic value for prurigo, alopecia and chapped skin, but it is probable that for such conditions a dusting powder or anhydrous ointment containing the alcohol is more suitable. The alcohol may be used in association with vegetable or mineral oils, lanolin, beeswax, oxycholesterin, and some combinations can absorb water to the extent of fully 500 to 600 per cent.

Formulas

The following are examples of the wide range of preparations in which cetyl alcohol may be incorporated.

COLD AND VANISHING CREAMS

The addition of 0.5 to 1 per cent. of the alcohol to any of the recognised formulas will increase the fineness of the emulsion, and its stability, and is said to facilitate absorption through the skin. A useful basic formula for a cold cream using a higher proportion of cetyl alcohol is:—

Cetyl alcohol	...	...	...	15.0
White petroleum jelly	...	...	...	25.0
Lanolin	...	...	...	5.0
Liquid paraffin	...	...	...	30.0
Water	...	...	...	25.0

An emulsifying machine is necessary to produce a first-class product.

"ALL-PURPOSE" CREAMS

Cetyl alcohol is useful in these preparations because it imparts the desired dullness and thus prevents the skin from

becoming glossy. The following is an example:—

Cetyl alcohol	...	...	...	4.0
Liquid paraffin	...	...	...	40.0
Water	...	...	...	25.0
Oxycholesterol base	...	...	...	31.0

Other suitable formulas for all-purpose creams were given in THE CHEMIST AND DRUGGIST, September 18, 1937, p. 319.

LIQUEFYING CLEANSING CREAMS

Creams of this character are deservedly popular because of their ease of application and efficacy. The formula below may be taken as a guide:—

Cetyl alcohol	...	...	...	5.0
White petroleum jelly	...	...	...	20.0
Paraffin wax	...	...	...	5.0
Liquid paraffin	...	...	...	45.0
Water	...	...	...	23.0

BRUSHLESS SHAVING CREAMS

The wetting power essential to brushless creams may be secured by the use of cetyl alcohol. The following is also a useful formula:—

Cetyl alcohol	...	...	...	8.0
Stearic acid	...	...	...	50.0
Liquid paraffin	...	...	...	12.0
Triethanolamine	...	...	...	6.0
Water	...	...	...	150.0
Glycerin	...	...	...	8.0

The first three ingredients are mixed and heated to 70° - 75° C. and poured into the water containing the glycerin and triethanolamine at the same temperature. The mass is stirred gently until cold. The addition of a small proportion of menthol makes the cream even more pleasant to use. Other formulas were given in an article on "Brushless Shaving Creams" (C. & D., June 19, 1937, p. 702).

TOILET MILKS

Incorporation of 0.5 per cent. to 1 per cent. of cetyl alcohol in most existing formulas will give a preparation of improved stability and fineness of emulsion.

LIPSTICKS

The proportion of cetyl alcohol generally used in lipstick manufacture is 5 per cent. The compound is an excellent solvent for many colouring substances and also acts as a preventive of chapped and cracked lips, keeping them smooth and supple.

Indian Chemical Trade

THE following particulars of imports of chemicals, soaps, etc., are given in the "Survey of the Import Trade of India" for the year April 1, 1937, to March 31, 1938 (published by the Department of Overseas Trade), with figures for the previous twelve months:—

Chemicals

Following the reduction last year in this trade, the aggregate import during the year under review rose from Rs. 2,72 lakhs to Rs.3,33 lakhs. The following table gives imports under the principal sub-headings:

	1936-7. Rs. (lakhs)	1937-8. Rs. (lakhs)
Acids	9.15	10.39
Aluminous sulphate	1.04	1.38
Anhydrous ammonia	3.09	2.83
Muriate of ammonia	4.16	3.96
Carbonate and bicarbonate of ammonia	1.82	1.71
Other ammonia and salts thereof	1.86	1.45
Arsenic and its oxides	1.00	1.17
Bleaching powder	9.13	13.12
Carbide of calcium	6.86	5.94
Liquid chlorine	—	2.49
Copper sulphate	3.29	5.53
Disinfectants	6.77	8.21
Glycerin	0.70	1.07
Lead compounds	1.1	0.90
Magnesium compounds	4.27	4.53
Phosphorus, all kinds... ..	—	1.10
Potassium bichromate... ..	1.52	1.44
Potassium chlorate	6.08	7.07
Other potassium compounds	3.79	3.49
Sodium bicarbonate	5.93	5.60
Sodium bichromate	3.61	4.65
Borax	2.63	3.61
Sodium carbonate	50.89	59.58
Sodium cyanide	1.37	2.19
Caustic soda	36.57	42.80
Sodium hydrosulphite... ..	4.29	13.98
Sodium silicate	2.89	1.82
Sodium sulphide	2.23	3.27
Sodium hyposulphite	0.74	0.81
Sodium sulphate	0.36	0.85
Other sodium compounds	2.88	3.20
Sulphur	21.85	26.11
Zinc compounds	8.62	13.42
Other sorts of chemicals	60.08	71.77

Drugs and Medicines

Total imports advanced from Rs.2,07 lakhs to Rs.2,36 lakhs. In proprietary and patent medicines imports rose from Rs.68 lakhs to Rs.74 lakhs, the share of the United Kingdom rising from Rs.29.4 lakhs to Rs.31.8 lakhs, Germany from Rs.17.7 lakhs to Rs.18.3 lakhs and the U.S.A. from Rs.11.7 lakhs to Rs.14.5 lakhs. Imports of quinine salts improved from Rs.23.2 lakhs to Rs.26.8 lakhs, mainly due to increased importations from Germany from Rs.8.5 lakhs to Rs.12.6 lakhs. Arrivals from the United Kingdom dropped from Rs.7.6 lakhs to Rs.7.1 lakhs and those from Java from Rs.2.8 lakhs to Rs.2.2 lakhs. Imports of camphor advanced from Rs.21.2 lakhs to Rs.22.3 lakhs, notwithstanding the fact that arrivals from Japan fell from Rs.11.3 lakhs to Rs.10.8 lakhs. The position of Germany improved from Rs.7 lakhs to Rs.8.6 lakhs.

Soap

The continuous decline in the imports of soap, due to the establishment by United Kingdom manufacturers and Indian companies of works in the country, is again in evidence, total arrivals falling from 47,592 cwts. (Rs.26.8 lakhs) to 41,538 cwts. (Rs.24.5 lakhs). The share of the United Kingdom dropped from Rs.20.3 lakhs to Rs.16.7 lakhs, while that of unspecified countries rose from Rs.6.5 lakhs to Rs.7.7 lakhs.

During the year under review the imports of household and laundry soap fell from 10,216 cwts. (Rs.2 lakhs) to 9,339 cwts. (Rs.1.8 lakhs). Imports of toilet soap fell from 32,684 cwts. (Rs.23.3 lakhs) to 27,180 cwts. (Rs.21.2 lakhs).

Zanzibar Clove Report

THE Clove Growers' Association of Zanzibar has issued the following report for the three months ended June 30, 1938:—

The review for the previous quarter anticipated better conditions generally in overseas markets. This materialised partially, and there has been a slightly improved situation in some markets with a higher export. Although exports have not yet recovered to average, at 5,309,237 lb. for the quarter they were better than during the third quarter and the best for the seasonal year. Markets have been difficult and uncertain and buying largely of a hand-to-mouth variety. This situation has been brought about to some extent by Madagascar selling competition, where prices have been influenced somewhat by the change in the franc exchange rate. An interesting feature of the quarter was the settlement reached with exporting and merchant houses. It is too early to express any opinion on the practical consequences of the agreement which provides for a division of the trade, but there will be some effect in local and overseas markets. There is a better atmosphere, however, and some indication already of a return to normality in exporting conditions. The supplies and exports during the quarter were:—

Supplies	lb.	Exports	lb.
Zanzibar produce	257,249	To all destinations	5,309,237
Pemba produce	1,116,972		

Export destinations and quantities were:—

	Bales	lb.
Dutch East Indies	27,352	3,829,250
Bombay and India ports	7,580	1,061,210
America—North and South	1,705	238,780
United Kingdom and Continent	334	46,760
Straits Settlements	100	14,000
All other destinations	852	119,237

In terms of standard bales (140 lb. net) supplies were 9,816 and exports 37,923. For the seasonal year, July 1, 1937, to June 30, 1938, the supplies and exports were:—

Supplies	lb.	Exports	lb.
Zanzibar produce	15,627,507	To all destinations	14,537,025
Pemba produce	31,829,560		

The export destinations and quantities were:—

	Bales	lb.
Dutch East Indies	57,329	8,026,100
Bombay and India ports	14,739	2,063,460
America—North and South	14,313	2,003,800
United Kingdom and Continent	11,180	1,565,260
Straits Settlements	725	101,500
All other destinations	5,550	776,905

In terms of standard bales, supplies, 337,979, and exports, 103,836. These figures reflect an exceptional season, and deliveries of 337,979 standard bales, or, say, 1,355,916 frasilas, to the Association confirm a record harvest for both islands.

Clove Stems

Supplies during the quarter at 775,049 lb. were a little over 10 per cent. only of the quantity received during the third quarter. The distillery absorbed 1,000,115 lb., and for the seasonal year distillery operations were as follows:—

	Stems used	Oil exported
1st quarter	499,738 lb.	30,096 lb.
2nd quarter	655,877 lb.	27,984 lb.
3rd quarter	808,900 lb.	39,626 lb.
4th quarter	1,000,115 lb.	47,103 lb.

Supplies of stems during the seasonal year were 10,002,410 lb. The market for oil has been reasonably good, although values have declined. The production has found a ready sale to various destinations, and the outlook is fairly secure.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, August 25

SO FAR, THE MARKETS show little sign of a general improvement in demand, which has been quiet throughout the month. Business has been almost entirely confined to a limited routine home trade demand, with little or no evidence of speculative activity. Export orders also seem to have been at a low level. Despite these dull conditions, values in most products are keeping remarkably steady. This is particularly noticeable in natural products, with the London stocks in merchants' hands well below normal. The PHARMACEUTICAL CHEMICALS market has shown little change on the week, while business continues barely up to average. EPHEDRINE HYDROCHLORIDE, B.P., continues to receive good inquiry, and makers' prices are well maintained. The breakdown of the STRYCHNINE Convention does not necessarily mean that sales prices for ordinary quantities of the SALTS are now lower than the very cheap prices reached some few weeks ago. MERCURIALS are quoted unchanged, with competition from imported material.

Crude Drugs

Business in these products has been moving quietly, with the tone quite steady, and some products firm and high values. The source has indicated that new crop AGAR is likely to be dear, owing to lack of raw material. There is no sign of any easing in the firm tone of CURAÇAO ALOES; both spot and forward supplies seem very short. BUCHU is moving slowly on spot. Shipment offers of new season's CASCARA SAGRADA are few, and prices are firmly maintained. Bergen reports that the shipment market for Norwegian COD-LIVER OIL is dull. Interest continues in ERGOT, with high prices ruling for new crop. HYDRASIS is quoted slightly cheaper this week; business quiet. The shipment market for MATTO GROSSO IPECACUANHA is firm, with shippers rejecting bids. The MENTHOL market has been dull, with a complete absence of speculative business. Spanish-Italian MERCURY is quoted unchanged. PEPPERS have eased on quotation a fraction on a quiet market. Most of the limited business in RHUBARB has been for the ROUGH ROUND variety. All descriptions of SENNA are quoted steadily, with the London market quiet. SENEGA is quoted dearer at the source, and spot has moved up in line. TRAGACANTH shows no change on the week, and BEES' and CARNAUBA WAXES remain in quiet demand and quoted about unchanged.

Essential Oils

Conditions in these markets remain generally quiet, and quotations for many oils vary considerably, the differences being usually accounted for by quality. A limited spot demand for ANISE (STAR); shipment slightly easier. BERGAMOT is dull and quoted unchanged. Spot stocks of Chinese and Japanese CAMPHOR oil are very limited and firmly held. CANANGA is quoted easier and is neglected. Ceylon CITRONELLA shows a further slight advance in the shipment market, and the source reports stocks are very low. Importers state they are still waiting for quotations for new crop LAVENDER and LAVANDIN; crops are expected to be up to average in quantity. The small supplies of good quality Sicilian LEMON are fully steady as quoted; shipment dull and rather easier. LEMONGRASS has been neglected. A little business reported on spot in French GUINEA ORANGE at keen prices for drums. PALMAROSA is rather easier forward. Fair demand for Japanese PEPPERMINT on spot at steady prices. WORMSEED is quoted slightly cheaper.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	August 18	August 25
Amsterdam ...	Fls. to £	12.107	8.93½	8.92
Berlin ...	Mks. to £	20.43	12.17	12.16
Brussels ...	Belgas to £	nominal	29.00	28.92½
Copenhagen ...	Kr. to £	18.159	22.40	22.40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25.24½	nominal	nominal
Milan ...	Lire to £	92.46	92½	93½
Montreal ...	Dols. to £	4.86½	4.90½	4.80½
New York ...	Dols. to £	nominal	4.88½	4.88
Oslo ...	Kr. to £	18.159	19.90	19.90
Paris ...	Fr. to £	124.21	178½	178½
Prague ...	Kr. to £	164.25	141½	141½
Stockholm ...	Kr. to £	18.150	19.40	19.40
Warsaw ...	Zloty to £	43.38	25½	25½
Zurich ...	Frs. to £	25.2115	21.30½	21.30

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

A QUIET routine business continues, with quotations unchanged. British makers of strychnine salts are meeting competition.

ACETANILIDE.—Steady, business quiet: B.P. crystals and powder, 1s. 7d. to 1s. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Market very irregular on quotation: crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—One cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d. in 1-lb. tins; 1s. 10d. in 8-oz. tins, and 2s. 1d. per lb. in 4-oz. tins.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Dull and prices inclined to be unsteady: two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. per lb., ex store.

BENZOIC ACID (B.P.).—Makers' prices continue at the recent reduction: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. up to 2s. 2d. per lb., as to quantity.

BORAX (B.P.).—Makers' prices steady: granulated, £24; crystals, £25; powdered, £25 10s.; extra fine powder, £26 per ton, in one-cwt. bags, carriage paid buyers' works for minimum 1-ton lots. Extra for smaller quantities. Commercial quality, £8 per ton less for all descriptions.

BORIC ACID (B.P.).—Makers' prices continue steady: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb. f.o.b.

BUTYL CHLORAL HYDRATE.—Quoted unchanged: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure alkaloid, two cwt., 8s. 10d.; one cwt., 9s. 0½d.; 56 lb., 9s. 2½d.; less than 56 lb., 9s. 4½d. per lb. Citrate, two cwt., 5s. 11½d.; one cwt., 6s. 0½d.; 56 lb., 6s. 1½d.; less than 56 lb., 6s. 2½d. per lb. Soda sal., two cwt., 6s. 2½d.; one cwt., 6s. 3d.; 56 lb., 6s. 4½d.; less than 56 lb., 6s. 5½d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d.

CHLORAL HYDRATE.—Steady demand from the home makers: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars 1d. per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Continues steady and in fair demand: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for wholesale bulk quantities are quoted as follows:—HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz.; 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows:—HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity below the scale prices for such quantity current at the time of resale. Export prices vary according to destination.

CREAM OF TARTAR.—Business on moderate scale: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—Inquiry continues on a good scale, with home makers' prices keeping fully steady. Minimum 1,000 lots at 6s. and up to 7s. per oz. for small parcels. Pure alkaloid, 7s. 9d. to 8s. 6d. per oz., as to quantity.

GALLIC ACID.—Limited demand, market steady: one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

LACTIC ACID (B.P.).—Steady, rather quiet: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10½d. per lb., as to quantity.

METHYL SALICYLATE.—Business of small importance: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' quotations keen, business slow: two cwt., 19s. 9½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, up to 20s. 8d. per lb.

PHENACETIN.—Continues steady, average small business: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PARALDEHYDE.—Occasional inquiry: in carboys, 1s. 2d.; in winchesters, 1s. 5d. to 1s. 6d.; in bottles, 1s. 7½d. to 1s. 10½d. per lb., ex store.

PHENAZONE.—Remains quiet and competitive: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Quoted prices are unchanged: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Small parcels, in 2-lb. bottles, are quoted at about 18s. to 19s. 6d. per lb., as to quantity.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: **AMIDOL.**—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. **CHLOROQUINOL.**—1-lb. bottles, 21s. per lb. **GLYCIN.**—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. **HYDROQUINONE.**—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. **METOL.**—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free. **ALUM (PHOTOGRAPHIC QUALITY).**—1 cwt., 21s. per cwt.; 28 lb. for 6s. **GOLD CHLORIDE.**—15-grain tubes, 45s. per doz. **MAGNESIUM POWDER.**—10s. per lb. **PARAMIDOPHENYL HYDROCHLOR.**—8s. 6d. per lb., bottles free. **POTASSIUM FERRICYANIDE.**—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. **POTASSIUM METABISULPHITE.**—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. **PYROGALLIC ACID, CRYST.**—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. **SODIUM (CARBONATE RECRYST.)**—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM HYPOSULPHITE, CUBES, CRYST.**—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM SULPHIDE (PURE).**—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. **SODIUM SULPHIDE, RECRYST.**—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

POTASSIUM PERMANGANATE (B.P.).—Continues steady and in fair demand: in drums, 8½d. to 9s.; druggists' parcels, from 10d. to 1s. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Business slow; quoted at about 6s. 1d. to 6s. 6d. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydrophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

ROCHELLE SALTS.—Makers' prices are steady:—

	Pulv. Sod. Pot. Tart. B.P.	Pulv. Seidlitz	Double Seidlitz
	Per cwt. s. d.	Per cwt. s. d.	Per cwt. s. d.
Under 1 cwt. ...	85 0	68 0	76 5
Under 5 cwt. ...	82 6	66 3	73 3
Over 5 cwt. in one delivery ...	80 0	64 3	71 0

Soda, pot. tart. cryst. at 2s. 6d. per cwt. extra to powder, net, 14 days. Special prices for quantities. Contracts accepted subject to a rise and fall clause.

SACCHARIN.—Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Makers' scales of prices unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0½d.; 4 lb., 2s. 2½d. per lb.

SALOL.—Business quiet, with quotations keen at about 2s. 1½d. to 2s. 6d. per lb., as to quantity.

SODIUM SALICYLATE (B.P.).—Makers' prices unchanged, market dull: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10½d.; 7 lb., 1s. 11½d.; 1 lb., 2s. 4d. per lb.

STRYCHNINE SALTS.—The Convention has, for the time being, been disbanded, in so far as the makers concerned have now agreed to quote to meet outside competition. Actually, on this account, prices for bulk quantities have weakened but very little, and the former scales, which we publish below, may be taken as a general guide, particularly where the smaller quantities are concerned. We understand there is no dispute between the former Convention firms, and the possibility of a re-formation is not remote. It should be noted that the old fixed scales of prices were at exceedingly low figures, and a sharp recovery may be anticipated should conditions be reached which would permit the functioning of a "water-tight" convention.

	Under 100 oz.	Under 500 oz.	500 oz. and over
	Home or f.o.b. British Empire	Home or c.i.f. British Empire	Home or c.i.f. British Empire
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Pure Crystals ...	1 3½	1 3½	1 3
" Præcip. ...	1 3½	1 3½	1 3
Acetate ...	1 10	1 10	1 8
Arsenate ...	1 9	1 9	1 7
Arsenite ...	1 10	1 10	1 8
Bisulphate ...	0 10	0 10	0 9½
Hydrochloride ...	1 1½	1 1½	1 1
Hypophosphite ...	3 4	3 4	3 2
Nitrate Crystals ...	1 1½	1 1½	1 1
" Powder ...	1 1½	1 1½	1 1
" No. 2 ...	0 10½	0 10½	0 9½
Phosphate ...	2 1	2 1	1 11
Sulphate Neut. Cryst. ...	1 0	1 0	0 11½
" Powder ...	1 0	1 0	0 11½
" No. 2 ...	0 10½	0 10½	0 9½

25-oz. tins free. Export cases free. 1-oz. bottles 2d. each extra. For export—1 per cent. cash in ten days. Terms: net, 30 days. Contracts cannot be accepted. For export: buyers held covered against price reduction for ten days after arrival of steamer at port of destination.

TARTARIC ACID (B.P. CRYSTALS).—Continues steady and in seasonal demand: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

Crude Drugs, etc.

ACONITE ROOT.—Some Nappelus, shortly to arrive, is quoted in London at 95s. per cwt., landed.

AGAR.—Business has been of small account, but values are quite steady: spot, Kobe, No. 1, 3s. 1½d. to 3s. 3d.; No. 2, 2s. 11d. Yokohama, No. 1, 2s. 10d. per lb.; shipment, Kobe, No. 1, 2s. 10½d. to 2s. 11d.; No. 2, 2s. 7d. Yokohama, No. 1, 2s. 7½d. per lb., c.i.f. Mail advices this week report a shortage of raw material, which is selling at high prices. In consequence, Kobe, No. 1, new crop, is now indicated dealer at 2s. 10d. per lb., c.i.f.

ALOES.—The position of Curaçao, spot and forward, continues very firm at high figures. There appears to be only one seller forward: Cape, spot, 57s. 6d. to 60s.; shipment, easy at 55s. per cwt., c.i.f. Curaçao, spot, from 167s. 6d. to 175s., as to quality; shipment, 150s. upwards per cwt., c.i.f.

ANTIMONY.—Steady: Chinese, crude, spot, £35, duty paid; shipment, September-October, £30, c.i.f. English regulus, £70 to £71 per ton, ex store.

BALSAMS.—Steady and unchanged: *Tolu*, 1s. 7½d.; *Canada*, spot, 3s.; shipment, 2s. 10d.; *Copaiba*, 1s. 8d.; *Peru*, 4s. 3d. per lb., ex store, spot.

BELLADONNA.—Small business, values steady: leaves, 55s.; root, high test, 56s. per cwt., spot.

BENZOIN.—Continuing quiet and unchanged: Siam, medium almonds, £26; bean and pea, £22; pea size, £20 per cwt., ex store. Sumatra quoted at from 70s. to 90s. per cwt., ex store.

BUCHU.—Odd bales reported sold, with a fair selection now available here, but very little good bold green leaves: spot, new crop, rounds, 1s. 5d. to 1s. 7d., as to quality; ovals, 1s. 4½d. to 1s. 5d.; old crop, rounds and ovals, about 1d. cheaper.

CAMPHOR.—Business of little consequence, quoted unchanged: Japanese monopoly, BB brand, £7 10s. per 100 lb.; Japanese, natural, spot, tablets, 2s. 6½d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 2d.; powder, 1s. 11½d.; slabs, 1s. 11½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.

CASCARA SAGRADA.—Shipment market firm, with very few offers from source. Some re-sellers of this year's bark: spot, 1936, peel, 58s. 6d.; 1937 peel, 55s. to 57s. 6d. per cwt., ex store; shipment, 45s., c.i.f., with possible resellers at 44s. per cwt., c.i.f. A parcel of 1938 bark, now landed, available at 50s., ex wharf.

CASSIA FISTULA.—Dealers' prices for spot supplies are in the region of 30s. per cwt., ex store.

CHAMOMILES.—The price asked for new-crop first pickings is maintained at 150s. per cwt., landed.

CLOVES.—Market has been quiet, with values steady: Zanzibar, spot, 8½d.; shipment, August-September, 8½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, August-September, 7½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended August 20 were nil, and the deliveries 6, leaving a stock of 1,345. From January 1 to date the landings of Zanzibar have been 1,904, and the deliveries 1,618. Landings of Madagascar for the week ended August 20 were 334, and the deliveries 74, leaving a stock of 1,609. From January 1 to date the landings of Madagascar have been 1,465 and the deliveries 1,932 packages.

COCONUT (DESICCATED).—Slightly easier on a quiet market: spot, fine, 16s. 9d.; medium, 16s. 9d. per cwt.; shipment, halves, August-September, 15s. 3d.; October-November, 15s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market has been very quiet: finest Lofoten-steam-refined non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

DERRIS ROOT.—Root testing, 17 per cent. ether extract, quoted at 7d. to 7½d. per lb., ex store; shipment, 5 per cent. rotenone, 7½d. per lb., c.i.f.

ERGOT.—Conditions in this market continue generally firm, with interest sustained. While quotations for new crop Polish have firmed up a little, those received this week for Portuguese are a little easier, but the margin between the two sources is still much more than usual. Some of the Polish which has arrived here is of fine bold seed, very different from the usual small commodity: Polish, 4s., sellers; shipment, 3s. 7½d. to 3s. 9d., c.i.f. Portuguese, spot, from 6s.; shipment, 5s. 6d. to 5s. 9d., c.i.f. No Russian or Spanish offering.

GAMBOGE.—Market is dull: good Siam pipe quoted at about £13 10s. per cwt., duty paid.

GENTIAN.—Remains quiet and rather competitive: clean French root, 33s. 6d.; shipment, new crop, 27s. 6d., c.i.f.; Continental, 32s. 6d. per cwt., ex store, as to quantity.

GINGER.—Values are level on the week, market quiet: West African, spot, 26s. 6d.; for arrival, 24s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 70s. to 85s.; small grinding, in bags, 45s. to 47s. 6d. per cwt., c.i.f.

GUM ACACIA.—Quiet and quoted nominally unchanged: Kordofan, cleaned sorts, spot, 39s.; shipment, 36s. 6d. per cwt., c.i.f.

HENBANE.—Dealers' prices are steady: 70s. to 72s. 6d. per cwt., as to quantity.

HENNA.—Continues in short supply and firm: Egyptian, brown leaves, from 32s. 6d.; green leaves, if available, about 40s. per cwt., ex store.

HONEY.—The sales of this product have been of little importance; quoted unchanged for all descriptions: new crop Jamaican, from 28s. for dark manufacturing to 45s. for pale set; Californian, duty paid, 52s. 6d.; Canadian, 55s. per cwt., ex store.

HYDRASTIS.—Values are slightly easier, market steady but quiet: spot, U.S.P., 14s. to 14s. 3d.; shipment, 14s. per lb., c.i.f. Untested root slightly cheaper.

IPECACUANHA.—Market is very firm, with shippers rejecting good bids: Matto Grosso, B.P., spot, 7s. 1½d. to 7s. 4d.; shipment, 6s. 6d. bid and rejected, with 6s. 10½d., c.i.f., the lowest offer from the source.

LOBELIA HERB.—Steady, business slow: 6½d. to 7d. per lb., for good quantities.

LYCOPodium.—Market remains dull: dealers are quoting spot supplies at about 4s. 6d. to 4s. 7½d. per lb.

MANNA.—Dealers are quoting finest selected flake, in 1-lb. tins, 3s. 6d. per lb., ex store.

MENTHOL.—A limited routine business only being done in this commodity. Values, however, are keeping steady: K/S brands, spot, 13s. 1½d. to 13s. 3d.; Japanese shippers quoting September-October 11s. and October-December 10s. 6d. per lb., c.i.f. Chinese, spot, 12s. 9d.; shipment, September-October, 10s. 6d. per lb., c.i.f.

MERCURY.—First-hands quotations are unchanged: shipment, 69 dollars per bottle, f.o.b., Continent; spot, £13 18s. to £13 18s. 6d. per bottle, ex store, London.

NUX VOMICA.—Cochin, washed and garbled, B.P., spot, 11s.; forward, 9s. per cwt., c.i.f.

OPIUM.—A few bales reported sold at steady prices: Turkish, original cases of 170 lb., 13 per cent., 1s. 1d.; Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

PEPPER.—Market has been dull and is quoted fractionally easier: Lampong, in bond, 2½d.; shipment, August-October, 2½d.; October-December, 2½d.; January-March, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, August-October, 33s., c.i.f. Aleppy, spot, 4d.; shipment, August-October, 33s. 6d., c.i.f. White Muntok, in bond, 3½d.; shipment, August-October, 3½d.; October-December, 3½d., c.i.f. London Terminal Market: Black, August, 2½d.; October, 2½d.; December, 2½d.; March, 2½d. White, July, 3½d.; October, 3½d.; December, 3½d.; March, 3½d. per lb.

PIMENTO.—Values about level on the week, market dull: spot, 8d. per lb.; shipment, August-September, 61s. 6d.; September-October, 61s. per cwt., c.i.f.

RED ROSES.—Supplies of new crop are available and quoted at about 6s. 9d. per lb., ex store.

RHUBARB.—Values are quite steady, with spot stocks very moderate. Shensi, spot, unchanged at 4s. 6d. to 5s. for best quality; old, slightly wormy, 3s. 9d.; no shipment offers. Rough round, shipment, f.a.q., 1s. 6d.; inferior, 1s. 3½d. to 1s. 4½d. per lb., c.i.f.; spot, 1s. 9d. to 2s. per lb., as to quality.

RUBBER.—Values have advanced sharply, fair business transacted, with market closing firm: standard smoked ribbed sheet, spot, 8½d.; September, 8½d.; October-December, 8½d.; January-March, 8½d.; April-June, 8½d.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 60s.; Bulgarian, 42s.; Cyrian, 41s. CARAWAY.—Dutch, on spot, is worth 33s. 6d., duty paid, and 28s. 6d., f.o.b. Holland. CANARY.—Spot, duty paid, Mazagan, 16s. 9d.; Morocco, 15s. 6d.; Turkish, 15s.; Spanish, according to quality, 25s. to 37s. 6d. CORIANDER.—Morocco, on spot, is quoted at 17s. 6d., duty paid, and 15s. 6d., in bond; for shipment, August-September, 14s., c.i.f., is the latest quotation. CUMIN.—Spot, Malta, 50s., duty free; Morocco, 50s., duty paid, and 47s. 6d., in bond; Morocco for shipment is 55s., c.i.f. FENUGREEK.—Morocco, spot, 12s. 6d., duty paid. FENNEL.—Indian, on spot, 22s. 6d. MUSTARD.—English, 22s. to 33s., according to quality.

SENEGA.—Market is rather firmer this week: spot, 1s. 11½d. to 2s.; shipment, 1s. 10½d. to 1s. 11½d. per lb., c.i.f., with a possible reseller at 1s. 10d., c.i.f.

SENNA.—Business has been quiet, but values for all descriptions are steady. Tinnevely.—The spot market is poorly supplied with good green leaves, but a consignment of good quality new crop is expected to reach the market next month. Spot values as follows: No. 1 leaves at 5½d., No. 2 at 3½d., No. 3 at 2½d., No. 4 at 2½d. per lb. Tinnevely pods.—Best pale available at 6d. per lb., and darker varieties at 3½d. to 4d. per lb. Alexandrian hand-picked pods.—Only small supplies of best selected available, and little likelihood of further supplies of really fine quality being received this season. Spot quotations as follows: Selected, 5s. per lb.; No. 1, 4s.; No. 2, 3s.; No. 3, 2s. 3d. Old crop, 1s. to 1s. 9d. per lb.

"The Indian Trade Journal," dated July 28, 1938, contains the following intermediate condition report on the senna crop in the Madras Presidency:—

The Satur crop is a normal one, but on account of poor demand, prices declined to the lowest level the trade has seen for many years. Satur leaves were sold from Rs. 10 to Rs. 17 according to quality. The cultivation expenses, Government tax, picking charges and marketing come to at least Rs. 10 per candy and as the fair average quality of arrivals realise only about Rs. 10 to Rs. 12, ryots have stopped picking the leaves.

The Tinnevely crop is also a normal one, but on account of absence of demand prices of this crop were also on the low side. American buyers who usually cover their requirements from June onwards showed no interest. Prices ranged from Rs. 25 to Rs. 40 according to quality (i.e. 20 to 30 per cent. lower than in previous years).

The unsold stocks with dealers and exporters approximated about 1,000 candies of 500 lbs. Export figures from March 1, 1938, to June 30, 1938, are as follows:—

	March 1, 1938, to June 30, 1938	March 1, 1937, to June 30, 1937
	Cwts.	Cwts.
United Kingdom and Continent	8,705	13,976
America	1,160	4,776
China	325	543
Japan	389	584
Australia	95	239
India	2,919	2,752
	13,593	22,870

SHELLAC.—Rather quiet market, with values keeping steady: spot, standard TN orange, 39s. to 42s.; fine orange, 55s. to 80s.; pure button, 50s. to 52s. 6d. per cwt.; for delivery, TN, October, 39s. 6d.; December, 40s. 6d.; March, 42s.; for arrival, TN, September-October, 37s. per cwt., c.i.f.

SLIPPERY ELM BARK.—Quoted at 1s. 6d. per lb. for 5-lb. bundles, ex store.

TRAGACANTH.—Small business, with most interest in grades of gum valued from £9 to £14 per cwt. Finest selected white ribbon, £65; No. 1, white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white, £35 to £42 10s.; amber leaf, £22; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hoggy, £6 to £7 per cwt., ex store.

TURMERIC.—The forward market is slightly easier, with Madras finger and Rajapore offering at 26s. 6d. per cwt., c.i.f. Madras finger, spot, 28s. per cwt., ex store.

VALERIAN ROOT.—Dealers are offering spot supplies in the region of 35s. per cwt., ex store.

WAXES.—The demand for waxes of all descriptions has been slow, quoted unchanged: BEES' quoted unchanged: Calcutta, bleached, spot, 125s.; shipment, August-September, 117s. 6d., c.i.f.; ordinary quality, spot, 97s. 6d.; shipment, August-September 92s. per cwt., c.i.f. Benguella, in bond, 90s.; shipment, August-September, 87s., c.i.f. Conakry, spot, 100s.; shipment, August-September, 87s. 6d., c.i.f. Dar-es-Salaam, spot, 97s. 6d.; shipment, August-September, 97s. 6d., c.i.f. CARNAUBA.—Business has remained quiet, values about unchanged: fatty grey, spot, 152s. 6d.; afloat, 147s. 6d.; shipment, August-September, 146s., c.i.f. Chalky grey, spot, 152s. 6d.; afloat, 146s.; shipment, August-September, 144s., c.i.f. Primeira, spot, good quality, 195s.; f.a.q., 182s. 6d.; afloat, 177s. 6d.; shipment, August-September, 175s., c.i.f. Mediana, spot, 180s.; shipment, 175s. per cwt., c.i.f.

Essential and Expressed Oils, etc.

THERE is little to comment upon in these markets. Business continues very modest in volume, with most orders for small quantities. Ceylon citronella is dearer again and short at the source. Anise (Star) is rather easier forward. Sicilian lemon is generally short in supply on spot and fully steady for good oil.

ALMOND.—Slow demand, with some sellers quoting keenly for bulk quantities: English-made, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb.; foreign, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb. French bitter, 6s. to 6s. 1½d. per lb.

ANISE (STAR).—With the demand moderate, spot values are fairly steady, forward quotations are rather cheaper: spot, leads, nominal; tins, 3s. 7d.; drums, 3s. 5d. per lb., ex store; shipment, leads, not offered; tins, 2s. 11d.; drums, 2s. 10d. per lb., c.i.f.

AVOCADO PEAR.—Dealers are quoting spot oil from 46s. to 52s. 6d. per gallon, as to quantity.

BERGAMOT.—Business seems to be of little account, with the Consortium price steady at about 14s. 9d. per lb., c.i.f. Spot lots of genuine oil are quoted in the region of 15s. to 15s. 3d. per lb.

BOIS DE ROSE.—Dealers are quoting Brazilian oil in drums at 5s. 4½d. to 5s. 6d., and small repacked lots up to 6s. per lb.

CAJUPUT.—Occasional small spot demand, market fairly steady: B.P., 2s. to 2s. 4½d. per lb., as to quantity.

CANANGA.—Very dull and unsteady on spot; shipment quotations weak: spot, 4s. 6d. to 5s., according to quantity and packing; shipment, 4s. 1½d. per lb., c.i.f.

CARAWAY.—Moderate spot demand; dealers' prices unchanged: Dutch rectified, 7s. 3d. to 7s. 9d.; crude, 6s. 9d. to 7s. per lb., as to quantity, landed and duty paid.

CASSIA.—The demand for this oil continues to be disappointing: spot, good quality oil, 3s. 1½d. to 3s. 2d., in leads; off-quality, about 3s. per lb. Shipment market is easy as quoted: leads, 2s. 10d.; drums, about 2s. 8½d. per lb., c.i.f.

CEDARWOOD.—Continues steady, with business quiet: African, in drums, 11½d.; smaller packages, up to 1s. 4d. per lb. American, in drums, 11½d.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Except for small spot demands of re-packed oil, the Ceylon product is neglected: quoted at about 2s. 4d. to 2s. 8d. per lb., as to quantity.

CITRONELLA.—The Ceylon oil is again dearer at the source, who report practically all stocks sold to America: Ceylon, spot, drums, 1s. 5½d.; smaller parcels, up to 1s. 9d.; shipment, drums, 1s. 4d. to 1s. 4½d. per lb., c.i.f. Java, spot, drums, 1s. 10d. to 1s. 10½d.; smaller parcels, up to 2s. 4d.; shipment, drums, around 1s. 4½d. per lb., c.i.f.

CLOVE.—Limited sales, with quotations keeping steady: Madagascar, spot, drums, 2s. 9d. per lb.; repacked in small parcels, 3s. to 3s. 3d. English, distilled, 4s. 10d. to 5s. per lb., as to quantity.

EUCALYPTUS.—Fair inquiry, with spot and forward prices for branded oils at steady figures: Australian, 70 to 75 per cent., tins, 1s. 4d. to 1s. 5d.; drums, 1s. 4d.; 80 to 85 per cent., drums, 1s. 8½d. per lb., ex store, with higher prices for small lots; shipment, 70 to 75 per cent., tins, 1s. 2d.; drums, 1s. 1½d.; 80 to 85 per cent., 1s. 4½d. per lb., c.i.f.

GERANIUM.—Market in these oils is quiet, with sellers quoting competitively: Bourbon, spot, 11s. 7½d. to 12s. 4½d.; shipment, 10s. to 10s. 3d., c.i.f. Algerian, spot, 12s. 9d. to 13s.; shipment, 11s. 8d. to 11s. 10d. per lb., c.i.f.

GRAPE-FRUIT.—Steady, quiet: Californian, 10s. 3d. to 12s. Florida, 11s. to 12s. 6d. per lb., ex store, as to quantity.

HO (SHU).—The market continues practically idle; prices steady: spot, "improved" quality, 4s. to 4s. 10d.; "extra," in drums, 4s. 3d. per lb., ex store; shipment, "extra," 4s. per lb., c.i.f.

JUNIPER BERRY.—Dealers' quotations are steady: spot, 3s. 3d. to 4s. per lb., as to quality and quantity.

LAVENDER.—Dealers are still awaiting indications of prices for new crop oils, but so far only one source reports a probable figure of about 12s. 9d., c.i.f. for 38 to 40 per cent. The crops of lavender and lavender are reported to be well up to expectations, and should turn out to be quite up to average in volume.

LEMON.—A steady inquiry for limited quantities of spot Sicilian oil is being received, and it is evident that stocks of this season's oil of good quality are now very limited, with holders not accepting less than 11s. to 11s. 4½d., as to quantity. The shipment market is dull and rather easier at about 10s. 4½d. to 10s. 6d. per lb., c.i.f. Machine-made, 10s. per lb., c.i.f. Californian distilled, steady at 6s. 4d. per lb., in small drums, landed.

LEMONGRASS.—Market is very flat and cheap spot offers are noted for good quantities: spot, 1s. 7½d. to 2s. per lb., as to quantity; shipment, August-September, 1s. 4½d.; September-October, 1s. 5½d. per lb., c.i.f.

LIME.—Quiet demand, with quotations unchanged: West Indian, distilled, spot, 21s. to 22s. per lb., as to quantity.

MANDARIN.—Quotations vary as to quality; demand small: spot, 19s. to 22s. per lb., as to quality; shipment, 17s. 3d. up to 20s., c.i.f., for highest grade oil.

NEROLI.—The season's business has been transacted; small spot lots quoted from 24s. 6d. to 27s. 6d. per oz., as to source.

NUTMEG.—Dutch and American oils unchanged at 5s. 4½d. per lb. for bulk lots; smaller parcels, up to 5s. 9d. per lb.

ORANGE.—The spot demand for French Guinea oil has been modest, while shipment offers are neglected: French Guinea, spot, in drums, 2s. 10½d.; repacked, in tins, 3s. 2d. to 3s. 4½d. per lb., ex store. Shipment dull, with price nominal at 2s. 4½d. per lb., c.i.f. Californian, spot, one case, 2s. 8½d.; two or more cases, 2s. 6d.; large drums not quoted; small drums, 2s. 5d. per lb., landed; cold-pressed, 3s. 2d. per lb., c.i.f., in cases.

PALMAROSA.—The shipment market is easier at about 6s. 10½d. per lb., c.i.f., while spot holders have reduced their values to about 7s. 9d. to 8s. per lb. New crop is offered for distant shipment at a discount of about 3d. per lb.

PATCHOULI.—Cwing to almost complete lack of demand, prices quoted are nominal at about 12s. 6d. to 13s. for Singapore oil.

PEPPERMINT.—Rather more spot business reported, with bids of 4s. 7½d. refused, and sellers steady at 4s. 9d. to 4s. 11d. per lb., as to brand. Near afloat and August-September quoted at 4s. 6d., c.i.f., and Japanese shippers quote October-December 4s. 4d., c.i.f., with speculative sellers at 4s. 3d. and buyers at 4s., c.i.f. American natural oil, tins, unchanged at 2 dollars 30 cents to 2 dollars 35 cents per lb., c.i.f. Bulgarian is offered at 11s. per lb. and Russian at 7s. 6d. per lb., c.i.f.

PETITGRAIN.—Market is steady, business moderate: spot, cases, 3s. 9d. to 3s. 10d. per lb.; shipment, 3s. 2d. per lb., c.i.f. French oil, to come forward, is quoted from the source at 950 francs per kilo, landed.

RAISIN SEED.—Small spot business: Californian, spot, 2s. 4d. to 2s. 6d. per lb., ex store, as to quantity.

ROSEMARY.—Remains quiet, but values for genuine Spanish are steady at 3s. to 3s. 6d. per lb., as to quantity. Tunis, new crop, 2s. 8d. to 2s. 10d. per lb., landed, as to quantity.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 9d. to 19s. 3d. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SPEARMINT.—Spot and forward values for good quality oil are steady, with the shipment market tending firmer: U.S.P. oil, spot, 9s. to 9s. 3d.; shipment, 8s. 4½d. per lb., c.i.f.

SPIKE.—Not much business moving on spot: good quality Spanish oil is available at about 5s. 4½d. to 5s. 9d. per lb., as to seller and quantity. Some oils are offering at cheaper figures.

WORMSEED.—Not much business moving: U.S.P. oil, spot, 11s. 3d. to 11s. 4½d.; shipment, 10s. 6d. per lb., c.i.f.

Sudan Gum Acacia Exports

BONALL & Co. report shipments from the Sudan during June 1938 totalled 1,925 tons, against 1,744 tons in June 1937. Shipments for January-June 1938 totalled 14,987 tons, compared with 13,974 tons in the corresponding period of 1937. The chief destinations were as follows:—

DESTINATION	1937			1938		
	Jan.-May	June	Total	Jan.-May	June	Total
Great Britain ...	3,487	830	4,317	3,367	546	3,913
U.S.A. ...	2,277	396	2,673	1,875	313	2,188
France ...	1,297	20	1,317	1,883	195	2,078
Germany ...	1,485	133	1,618	1,274	175	1,449
Italy ...	367	109	476	406	99	505
Belgium ...	521	32	553	1,186	174	1,360
Japan ...	860	—	860	259	5	264
Holland ...	384	91	475	444	40	484
Sweden ...	284	7	291	476	59	535
Australia ...	269	30	299	558	91	649
China ...	111	5	116	81	14	95
Canada ...	125	20	145	87	47	134
British India ...	71	—	71	118	5	123
Denmark ...	108	7	115	165	14	179
Finland ...	110	10	120	113	15	128
Poland ...	42	25	67	78	8	86
Greece ...	55	—	55	53	10	63
Egypt ...	36	—	36	106	15	121
Argentina ...	15	—	15	143	—	143
Brazil ...	46	9	55	88	26	114

The Export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
June, 1937, tons ...	1,529	26	189	1,744
June, 1938, tons ...	1,741	16	168	1,925
January-June, 1937, tons ...	12,238	74	1,662	13,974
January-June, 1938, tons ...	13,868	78	1,041	14,987

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

British Drugs in India

SIR,—I have read with mixed feelings "Index's" letter on the above subject, published in the *C. & D.*, July 16 (p. 69). British manufacturers are becoming more and more inclined towards stock depots in the main distributing centres of India. In this manner by their very method of supply to the wholesale market they enable these dealers to continue supplying their up-country customers as in the past, but a reasonable profit is made both by the wholesaler and retailer. It has happened in the past, and one can see it to-day, that there are good well-advertised lines manufactured by reputable British firms being literally driven off the Indian market because of the bugbear of price-cutting by the wholesale market. If firms in England would pay a little more attention to the reports of their Indian representatives, no matter how "crazy" they may sound when judged by business standards as applied at home, there would be less time wasted in writing unnecessary reports and more time available to "Sell the market."

Yours faithfully,

AJAX (5/8).

Solution of Ammonium Carbonate

SIR,—The two ways of dispensing of ammonium carbonate (*C. & D.*, August 13, p. 141) by no means include all the variations in method recommended for dealing with this volatile salt. My first recollection is that I was instructed to choose some solid lumps of the carbonate, carefully scrape off the powder, leaving clean translucent pieces, powder these in a mortar and dissolve. After a time this method was discarded, and the salt was bought ready powdered in pound bottles, which were kept carefully sealed, and the quantities weighed out as required. The next idea was to keep it in solution, and although I cannot remember anybody consistently putting in an overweight in order to be on the safe side, I have heard of a few drops of liq. ammon. fort. being added, presumably to keep up the strength of ammonia. And latterly we have been told that the best way to be sure of dispensing it accurately is to suspend the lumps in a muslin bag in the water and to allow it to dissolve by diffusion. What the next method will be I cannot tell, but if test prescriptions are still to be taken containing ammon. carb. chemists would be glad of some authoritative statement as to how it should be dealt with.—Yours faithfully,

DISPENSER (13/8).

SIR,—"Xrayser" and the little more (*C. & D.*, August 13, p. 141) has given the precepts in right order. Several years ago the writer urged the use of solution 1 in 8 made by suspending lumps (no matter how large) of ammonium carbonate in water. To make 80 fl. oz. suspend 10 oz. 425 gr. (avoirdupois) of ammon. carb. The reason for making it thus was to save "fag"—it makes itself overnight. The N.P.U. had the good keeping property of solutions proved by their analysts. In a large insurance area many tests of mixtures containing ammon. carb. have been dead accurate, or nearly so, and two or three cases of large excess have been due to the dispenser doing the reprehensible thing of adding little more, and deficiencies due to using pulv. ammon. carb.—a most reprehensible thing to do. Hard water does not interfere with strength. My assistant set a batch on the day before going for his holidays, and it was left uncovered for a fortnight. When adjusted to measure it was estimated owing to long exposure in wide-mouth jar and proved to be correct. It may not be known that pulv. ammon. carb. deficient in NH_3 is all right for the baker who wants it for the CO_2 content. A friend told me he used to get an order two or three days before the baker required it, and he used to spread it out on a bench in the back shop. There is nothing to be afraid of in using a solution made by suspending clean lumps of the salt, as is testified by this almost universal method of making in this country. When any serious deficiency in dispensed medicines containing ammon. carb. occurs, it is generally due to non-adoption of suspension method or use of powder.

Yours truly,

F. C. S. (12/8).

Value of Examination Knowledge

SIR,—One of the serious drawbacks to students for the old Minor examination of the Pharmaceutical Society was that, except in very large centres, there was no means of getting systematic tuition apart from three or six months spent at a school. At the average school science was not usually taught and an earnest student had to learn his chemistry, at all events, either at his home or in the shop after business hours. I remember that my volumetric work was done on a small table in my bedroom at home and also much of my practical chemistry. Then, again, a good deal of memorising was done in the daily shop routine. We took the habitats, etc., of official drugs from "Squire" and while dusting the bottles or the fronts of the drawers we went through the botanical name, habitats, natural order, and so forth, of the contents. Field botany could be undertaken much more easily then than now, particularly in country districts, because so many of the plants we had to recognise could be found growing. The encroachment of the builder, and particularly the making of tar-paved roads, is killing our English flora. I need not stress the fact that in pharmacy many of us had made practically all that we could make; except in a few pharmacies this is not possible to-day. Finally, may I say that it is not the volume of knowledge absorbed for an examination that counts, but the use that can be made of it. My impression is that the older chemists could more readily use the knowledge acquired than do those who qualify to-day. We were brought up in a harder school and were all the better for it.—Yours truly,

SENEX (20/8).

Insurance Dispensing Finance

SIR,—The details given in the *C. & D.*, August 20, p. 198, from the Report of the Ministry of Health for 1937 will be studied by chemists with mixed feelings, particularly the paragraph on National Health Insurance. After a quarter of a century's working there were over sixteen million people entitled to medical benefit, attended to by 16,000 doctors and supplied with medicines and appliances by about 12,000 chemists. Of the total expenditure of £9,872,500 on "medical benefit" the doctors received £7,200,000 for "attending and treating" insured persons and the chemists got £2,195,700 for "supplying drugs and medicines." Further, besides their fees the doctors were paid "for medicines and appliances supplied by them personally or for medicines dispensed by them in country districts." This absorbed another £192,000, yet it was found necessary to discount "by rather less than 7 per cent." the dispensing fees due to chemists. Though chemists themselves may be mainly responsible for this state of affairs, my feeling is that the trade is now thoroughly aroused to the injustice it has suffered so long and that any further supineness on the part of our representatives will lead to trouble.

Yours faithfully,

LUMEN (21/8)

SIR,—If there is one thing in particular to be noticed in the figures of prescriptions given from various districts in the recent reports under the heading of "Insurance Act Dispensing," it is the increasing number of scripts in each area and the gradual rise in their cost. And looking at the figures from Essex, in which are given the number of scripts, the number of persons on the doctors' panels, total cost and average cost per script, one finds during the five years tabulated there has been a continual rise in each column. It should be noted that these increases are not proportional; thus, if taking round numbers it is seen that in these five years quoted the number of scripts has increased by half as many again, but the number of insured persons was only one-third more in 1937 than the number given for 1931. Against this, the total cost has risen by rather more than half as much, so that we have arrived at a position where the number of scripts and their cost is increasing at a faster rate than the numbers of insured persons. In other words, the charges on the Drug Fund are growing more rapidly than the subscriptions to it, and if the present conditions of service and payment are to continue, there can be no other expectation than repeated discounting.

We do not know yet what the effect of the inclusion of juveniles in the medical benefit will prove to be, but if their requirements are to follow on the same lines as those of the adults, then the assumption that the increased revenue will help to stabilise the Drug Fund will most certainly turn out to be fallacious.—Yours faithfully,

OLIVER TWIST (6/8).

SIR,—Mr. W. F. Blank, writing about "The Proposed N.H.I. Contract" (*C. & D.*, August 20, p. 203), says there is every prospect of a substantial surplus during the next two years. Is this prospective surplus expected to arise from the inclusion of juveniles in the medical benefit? If so, we cannot be certain of it until the yearly accounts are completed, and there is yet sufficient time remaining for an epidemic which might result in a further drain on the Drug Fund and upset the outlook. But even if there should prove to be a surplus for the next two years, this does not alter the main principle of the suggested terms. The first proposition set forth dealt with the discounting clause, and I think it will be agreed by most panel chemists that it is time for this clause to be deleted from the contract. Full and fair pay for adequate service is the only just way; the service has been given for years, twenty-five to be exact, and it is admitted by the authorities to be of a high standard, right up to the last annual report of the Ministry of Health. Is it not time that panel chemists should receive dispensing fees more in accordance with the importance of the work done, and that their accounts be paid in full, so that they will not be left in doubt year after year wondering whether they will get what is owing to them or whether they will suffer a further loss through discounting? Personally I would much prefer to receive the exact payment for drugs and dispensing fees than to hope for a problematical surplus to materialise to counterbalance past losses.

Yours faithfully,
NONPLUS (20/8).

Points from Letters

Ethics and Dispensing Charges

One can appreciate the point of view that a code of ethics cannot very well include detailed references to the pricing of prescriptions (*C. & D.*, August 20, p. 203), but such omission seems to be a parallel to the case of the Pharmaceutical Society being unable to concern itself with matters relating to trade. Because, although a code of ethics might lay down rules for behaviour, yet we are in business as traders or professional workers whose object is to sell medicines and other commodities to the public. If a code could be arranged to bring about a universal scale of dispensing charges, I do not think anyone would argue that it was unprofessional.—*C. H. C.* (22/8).

Nineteenth Century Medicine

The average patient of a hundred years ago must have been of much stouter constitution than most people are in our generation, because the doses given for many drugs in old books would be considered heroic now. This fact is brought to mind by the table quoted from "A Nineteenth Century Compendium" (*C. & D.*, August 20, p. 195), in which the dose of borax is given from $\frac{1}{2}$ to 2 scruples. The present dose is 5 to 15 grains, which brings it within the range of the more potent medicaments, and its use for thrush in infants in the form of honey and borax is often accompanied by a warning that it should not be applied too freely.—*Biborate* (22/8).

What is a Customer?

The decision in the case reported from Southport (*C. & D.*, August 20, p. 188), in which the question was raised "What is a customer?" shows how the meaning of a word can be altered or extended with the course of time. The meaning of the word "custom" is given as "habitual practice," and as "the practice of buying from certain persons," whilst in an old edition of Johnson's dictionary I find that a "customer" is one "who frequents a place of sale for the purpose of buying," so that the essence of custom was its continuity. Now, however, the term is applied to anybody who enters any shop to make a purchase, and this interpretation has been upheld by the magistrates.—*R. K. B.* (21/8).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. R. (16/8).—SULPHANILAMIDE.—The melting point of this compound is 164° C.

P. M. H. (15/7).—CARE OF LEECHES.—It is not usual to feed leeches which are to be used for medical purposes, and it has been suggested that if kept for some time they become ravenous and are liable to attack one another. They should be kept in fresh water in a deep bowl, securely covered with sacking to prevent escape, since they seize every opportunity for exploration. Leeches dislike cold, and while they have been known to survive a temperature of -8° C., are usually kept near a stove or radiator in cold weather. Sudden change of temperature, whether upward or downward, causes many casualties. This is not the only way in which they are sensitive, as they dislike water containing an undue proportion of chalk, magnesia or iron. Before being used medicinally the leech must have its sucker thoroughly cleansed, to minimise the risk of infection from carried bacteria. If the leech is reluctant to draw blood, a little milk applied to the part usually persuades it to do so.

G. K. S. (15/7).—DISCOLOURED PARAFFIN WAX.—B.P. wax does not usually badly discolour on exposure to light, but it may turn slightly yellow in time. Only exposure to a considerable amount of sunlight should have any appreciable and marked effect. Treatment by sulphuric acid (the same method as used for refining and bleaching the wax) would be effective but far too costly, unless the quantity to be treated is considerable.

E. S. (15/7).—NAME ON LETTER HEADING.—Every individual and firm required by the Registration of Business Names Act to be registered must in all trade catalogues, trade circulars, showcards, and business letters on or in which the business name appears and which are issued or sent by the individual or firm to any person in any part of His Majesty's dominions have mentioned in legible characters:—(a) In the case of an individual, his present Christian name or the initials thereof and present surname, any former Christian name or surname, his nationality if not British, and if his nationality is not his nationality of origin his nationality of origin; and (b) in the case of a firm, the present Christian names or the initials thereof and present surnames, any former Christian names and surnames, and the nationality if not British, and if the nationality is not the nationality of origin the nationality of origin of all the partners in the firm, or in the case of a corporation being a partner, the corporate name.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," August 25, 1888

The "R" of the Prescription

The apothecaries' signs, the Latin language, and the general form of prescriptions no doubt descended direct from the "bills" which doctors passed to their apothecaries; but if that be so we very much doubt whether there is any good foundation for the ingenious notion, originated, we believe, by Dr. Paris, that the "R" of the prescription was directly traceable to the sign of the planet Jupiter. No doubt the old herbalists were fond of employing this and other planetary signs in their semi-astrological writings, but we discern very little connexion between their works and the "bills" which the doctors scribbled and handed to their associates or servants. It seems rather too absurd to believe that the oracles, however much they may have acted before the public, should have kept up the performance of invoking Jove on such informal scraps as would have been their communications the one to the other. On the other hand, the writing being always in Latin, nothing is more natural than that the usual first word should have been "Recipe" and that this in the hurry of the work should have been abbreviated to its first letter. The existence of the word "Recipe" in our language as applied to a formula is corroborative of this view.

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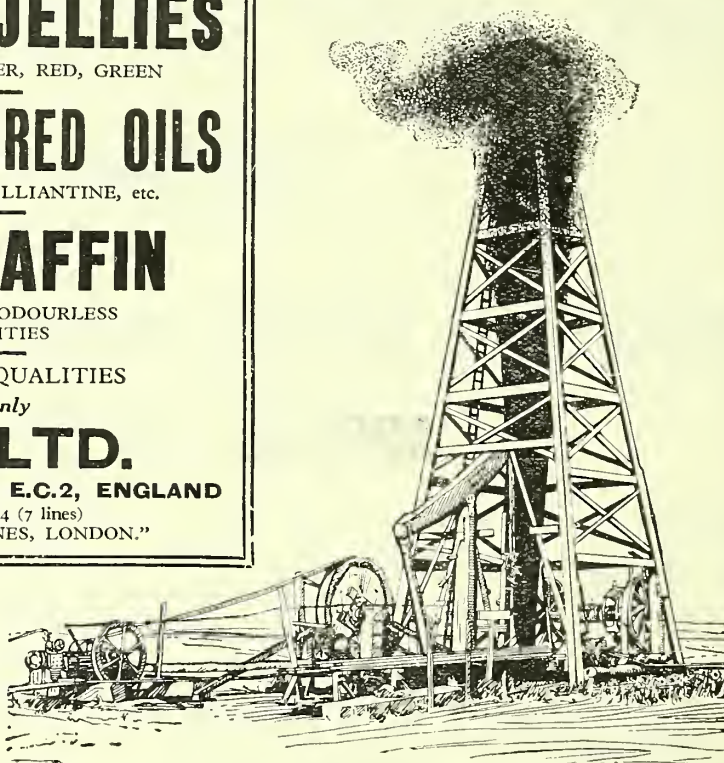
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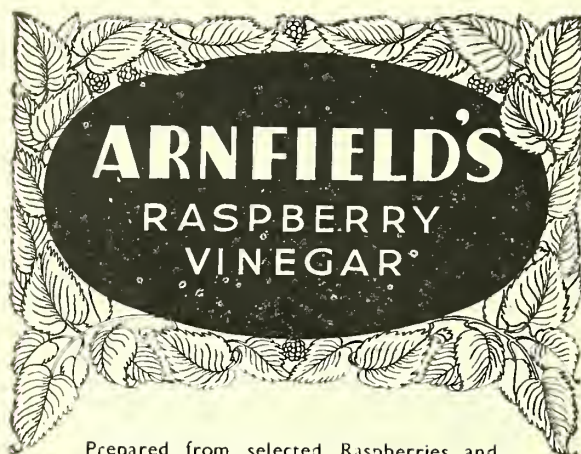
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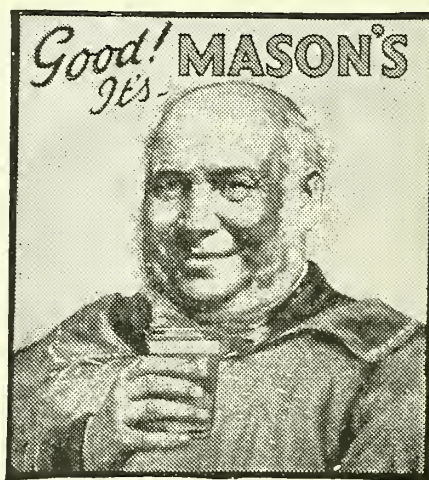
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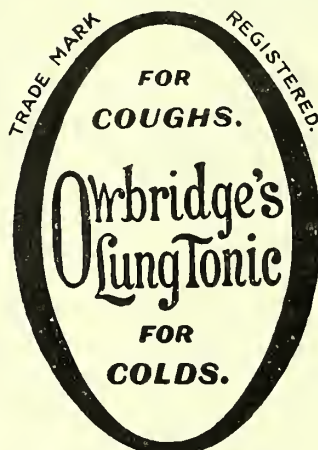
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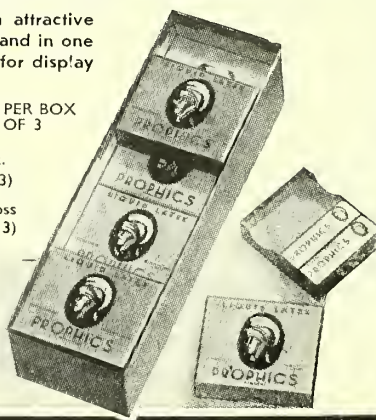
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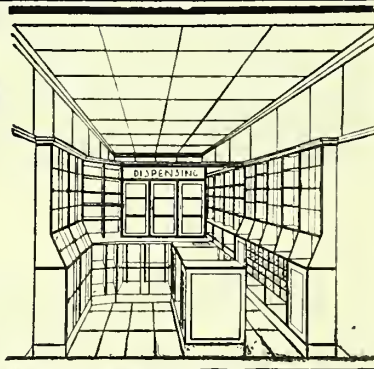
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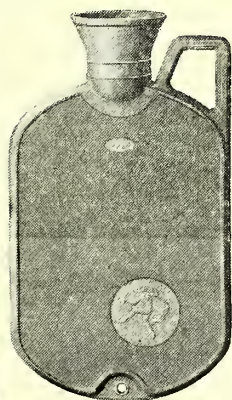
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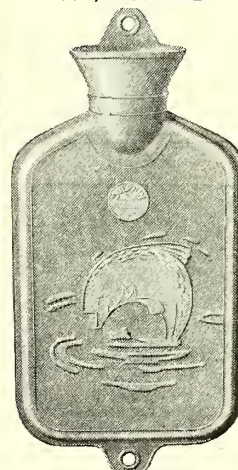
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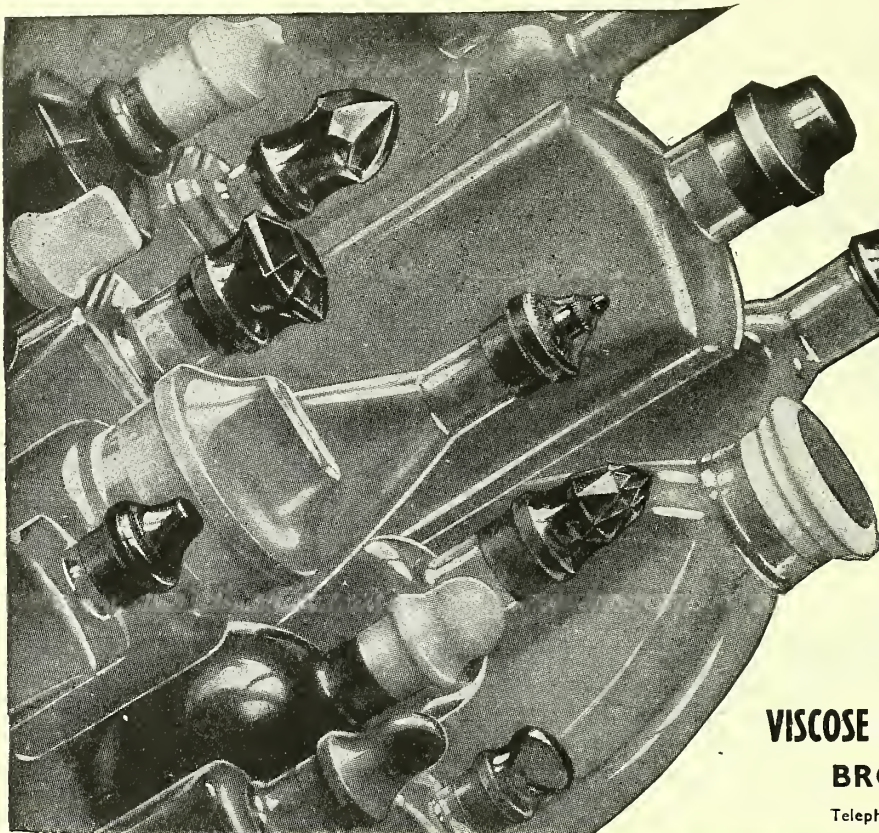


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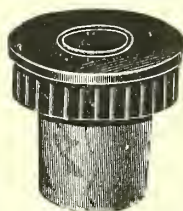
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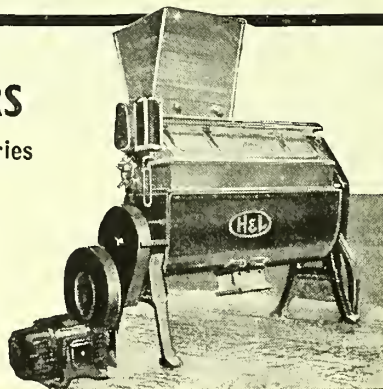
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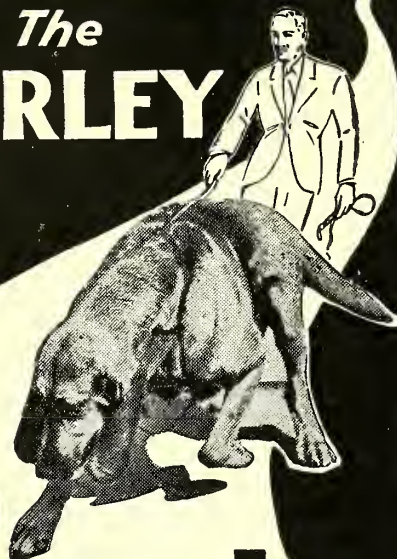
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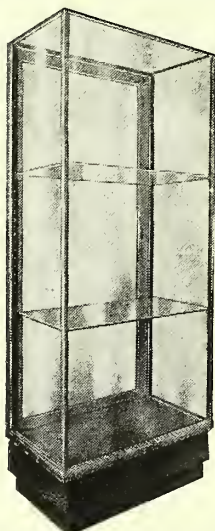
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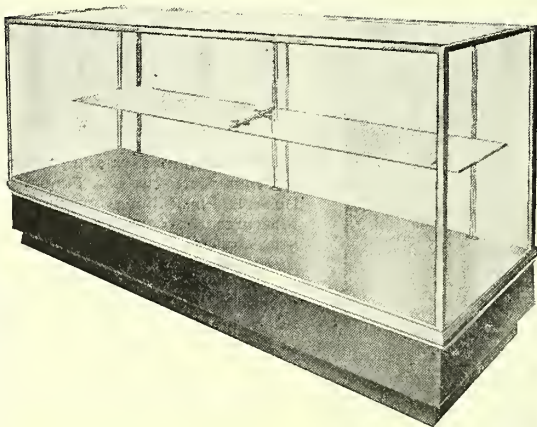
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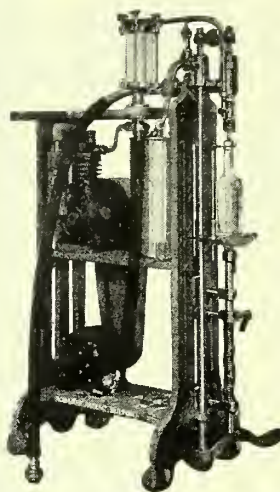
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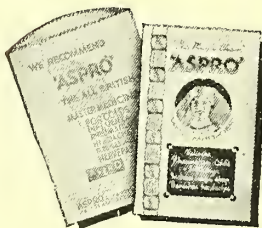


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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C.2

AUGUST 27,
1938

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5.—**HACKNEY**.—Middle- and Working-class Cash Retail Business; takings present rate, about £28 per week; good profits; stock worth about £600 can be reduced to suit purchaser; excellent house over; no reasonable offer refused; **part payment terms entertained.**

6.—**BIRMINGHAM**.—Family Retail Business; established 12 years; takings last year £1,165; net profit £315; nice house; low rental; inclusive purchase price £650.

7.—**SOUTHGATE (NEAR)**.—Family Retail Business; takings for last completed financial year £2,300; chartered accountant's figures; splendid living accommodation; National Cash Register; inclusive purchase price £1,450.

8.—**CRYSTAL PALACE (NEAR)**.—Old-established Cash Retail business; takings last year £1,260; net profit £350; good living accommodation; excellent stock and fixtures; inclusive purchase price required £775; management with view to succession considered £50 down.

9.—**GOLDERS GREEN (NEAR)**.—Good-class Business run under management; takings exceed £2,500 per annum; reasonable inclusive rental; modern flat over; attractive Pharmacy; inclusive purchase price about £1,500; valuation terms considered.

10.—**FULHAM**.—General Cash Retail Business; in present hands 10 years; takings approximately £1,000 per annum; net profit £288; sublets practically cover rental; inclusive purchase price asked £600.

11.—**KINGSTON**.—LIQUIDATION. —Well-established General Retail Business; takings last year £2,339; G.P. £733; stock estimated at £500; good living accommodation; first reasonable offer obtains; details upon application.

12.—**SOUTH WALES (HEALTH RESORT)**.—Good Middle-class Cash Business; takings over £1,250 per annum, increasing; excellent living accommodation; price to include property £1,450, or lease can be had at £65 per annum; retirement vacancy.

13.—**SOMERSET**.—Village Business for sale; takings last year £1,025; net profit £300; price required for the business about £575; no near opposition; spacious living accommodation; property can be purchased or leased; price for property £675, or rent £52 per annum.

14.—**NORWICH**.—Middle-class Retail Business occupying excellent position; takings £1,672; N.P. £413; chartered accountant's figures stock £500; inclusive purchase price £750 or near offer.

15.—**BOURNEMOUTH**.—Neglected Business for immediate sale owing to ill-health; turnover last year £714; very good living accommodation; garden; new lease will be granted at £75; price £375 to include stock and fittings; excellent opportunity.

16.—**ESSEX COAST**.—High-class Retail Business; takings for last completed year over £3,400; stock worth about £1,100; attractive fixtures; reasonable rent and advantageous sublet; inclusive purchase price £2,300 or near; vendor buying another business in Wales.

17.—**LIVERPOOL**.—Middle-class Business for sale for genuine reason; in present hands 13 years; takings £1,200 per annum; net profit £340; nice living accommodation, three bedrooms, bathroom, etc.; rent £60; inclusive purchase price £675.

18.—**YORKS**.—Exceptional opportunity for young man; Middle-class Business; well established; takings last year £1,863; stock and fixtures worth £450; rent £30 per annum; inclusive purchase price asked £500 or valuation terms entertained.

19.—**BUCKS**.—Progressive Good-class Retail Business; turnover this year £1,400—£1,500 under management; modern metal front; extremely well fitted and stocked; very good house; moderate rental; long lease; valuation terms considered. Vendor purchased another business.

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(C2) WEMBLEY (NEAR) (RETIREMENT VACANCY).—Good-class business (lock-up); turnover approximately £2,000 p.a.; rent £100; price all at £850, including stock estimated at £500, and fixtures £250.

(C3) LONDON, NORTH.—Good-class suburban business, with sub-post office; turnover upwards of £1,650 p.a., plus P.O. remuneration; net profit for last year £377; good scope; price all at £1,200.

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(C5) CLAPHAM (NEAR).—Attractive well fitted Pharmacy, with genuine scope for increase; turnover upwards of £1,500 per annum; gross profit about 35 per cent.; living accommodation, which has recently been redecorated; price £850, including stock (£450-£500), and fixtures (about £200); reasonable offer considered.

(C6) GOOD-CLASS SOUTHERN SEASIDE RESORT.—Family and dispensing business for sale owing to retirement; turnover upwards of £1,200 per annum; net profit £325-£350; rent £45; long lease; price by negotiation; genuine scope for increase under energetic proprietorship.

(C7) BRIGHTON.—Old-established family business with living accommodation; turnover approximately £1,200 per annum; rent £90; no opposition; price £800, but offers considered, as a quick sale is desired.

(C8) LIVERPOOL.—City business with steadily increasing turnover; returns for 1937, £2,510; this year is expected to reach £3,000; very reasonable net rental; excellent position, near to leading multiples; price £1,250, including stock £600; valuation terms if preferred; part can remain.

(C9) SURREY.—Recently established business with modern flat above; excellent potentialities, rapidly growing district (we understand that over 5,000 houses will be erected during the next 3 years); price all at £450, representing value of stock and fixtures only; owner selling as he cannot find time, on account of other interests, to adequately supervise.

(C10) ENFIELD (NEAR).—Steadily increasing middle-class business; turnover (certified) for 1936-37, £1,937; gross profit £730; net £475; moderate living accommodation; rent £78; price £950 or near offer; property not modern, but as a profit-earner the business is above the average and is still increasing.

(Cr1) UXBRIDGE (NEAR).—Old-established family business situated in growing and improving district; turnover for 1937-38 financial year, £2,139; gross profit £804; rent £65; lease nearly 21 years to run; to an Owner-Proprietor the business would at present show a net profit of £500-£550 per annum; price approximately £1,500 all-at.

(C12) STREATHAM (NEAR).—Branch business, with no immediate opposition, situated in populous good-class area; turnover for 1937-38 £1,650; rent £100; excellent scope with personal attention; stock and fixtures estimated at £825; price £950 all at; valuation terms if preferred.

(C13) HARROW (DEATH VACANCY).—High-class business with Arden, etc., agencies; turnover upwards of £2,200 per annum; net profit to owner-proprietor should approximate £400-£450; net rental £96 per annum; price asked comprises little more than value of stock and fixtures.

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(C15) HARROW (NEAR).—Good-class business with steadily increasing turnover, now at the rate of £40-£45 per week; premises well situated near to leading multiples; living accommodation; very reasonable rental for position occupied; returns this year should reach £2,500; price £1,750 or near offer; stock and fixtures estimated at £1,000.

(C16) WEST END.—Good-class business taking between £40-£45 per week; considerable scope for increase; situated in best part of West End; approximate value of stock £600; fixtures £300; price asked £1,000; audited accounts available.

(C17) DORSET.—Old-established, good-class business with living accommodation; turnover for 1935-36, £3,914; 1936-37, £4,194; company opposition pending and owner will accept £250 for goodwill; Arden etc., agencies; scope for increase in several directions.

(C18) BURNLEY.—Old-established, with optical connexion; must be sold forthwith, and any offer considered; net profit for last financial year £330; rent £40; good scope.

(C19) BUCKS.—Middle- and working-class business with good D. and P.; turnover for 1936-37, £1,162; premises occupy corner position on main road; rent £75; no near opposition; goodwill and fixtures £450; stock at valuation (estimated at £260).

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A FIRM with capital and premises would be interested to hear from Lady or Gentleman with organising ability and new ideas in Cosmetics for Manufacturing and Sale either direct to public or Wholesale, and would be willing to put person with suitable proposition on profit-sharing basis. Write fully to 332/157, Office of this Paper.

A WELL-KNOWN WHOLESALE HOUSE

IS Prepared to consider taking an interest in, or alternatively Purchasing, a **SOUND MANUFACTURING CONCERN** manufacturing Pharmaceutical Lines of any description for which there is a good market. Capital investment must not exceed £10,000. Reply in the first place in confidence to 332/174, Office of this Paper.

CHEMIST with £12,000 worth of assets, doing turnover wholesale and retail £16,000 per annum approximately, offers 5 per cent. interest on £5/6,000 for expansion. Willing to form Limited Company and give debenture. Open to every investigation. Particulars from 15/3, Office of this Paper.

OPPORTUNITY occurs for investment up to £4,000, for the development of two established Proprietaries. 333/185, Office of this Paper.

NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

APPRENTICES

INDIAN Student, completed the course for B.Sc. (Pharmacy), desires to serve apprenticeship to Pharmacist; Manchester district preferred. 18/33, Office of this Paper.

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

LANCING.—Qualified Manager, good Salesman and Window-dresser for Family Dispensing Business, with Photographic; good living accommodation over shop. Apply, giving full particulars, age, experience, salary required and when free, Cecil V. Brumwell, 110 Trafalgar Road, Portslade, Sussex.

LONDON.—Junior Assistant required, Qualified or Unqualified. Give full particulars of experience, salary required, and state when free. Applications unanswered in 5 days respectfully declined. Niman, Chemist, 70 Tottenham Court Road, W.1.

LONDON.—Unqualified Assistant required; quick and accurate Dispenser; good at Display and obliging at counter; permanency. Write 333/189, Office of this Paper.

LONDON, E.—Qualified Assistant for middle-class business with N.H.I. Dispensing, to commence duties about the middle of September. Apply (letter only), giving particulars of experience, names of references, age, when disengaged and salary expected, "Chemist," 300 Amhurst Road, London, N.16.

LONDON, N.E.—Qualified Lady or Gentleman wanted immediately; permanency; Dispensing and Counter; references. 18/20, Office of this Paper.

LONDON, N.W.1.—Qualified Assistant required; permanency; for middle-class business; no Sunday duty. Send full particulars re age, salary and previous experience (photograph if possible), 18/19, Office of this Paper.

LONDON, S.E. Suburb.—Qualified and also Unqualified Assistant required, lady or gentleman, young; good Counter and Dispensing experience essential; permanency; age, experience, salary required and when disengaged. 18/54, Office of this Paper.

LONDON, W.—Young lady, Qualified, required for good-class Dispensing business; permanency; must have good Counter experience; please state age, experience and salary required. Starkey & Son, 104 Holland Park Avenue, W.11.

MAIDSTONE.—Junior Assistant (Male) required, to start September 19 if possible; age about 21-24 years; light retail with N.H.I. Dispensing. Send usual particulars to E. Green, M.P.S. (Wells & Smith, Ltd.), 36 Stone Street.

MANCHESTER. Unqualified Junior or one just terminated apprenticeship, for medium-class business. Please state age, height, experience and salary expected (by letter only), to Pharmacist, c/o Messrs. J. Woolley Sons & Co., Ltd., Victoria Bridge, Manchester 3.

MANCHESTER.—Wanted, Junior and Qualified Assistant (female); please state age, experience and salary required. 333/181, Office of this Paper.

SOUTHWOLD.—Suffolk (small, quiet seaside town). Junior or Improver, Male (18-25), of good appearance and address; salary £2 10s. per week. State age, height, and enclose photo if convenient. A. E. Sawyer, M.P.S., 100 High Street, Southwold.

TORQUAY.—A vacancy occurs in a high-class Dispensing business for a young Unqualified Assistant; permanency. State terms and experience and send photo if possible to W. B. Douglas, 1 Victoria Parade.

WORTHING.—Unqualified Assistant required immediately; knowledge of high-class Toilets. Apply, giving usual particulars and enclose photograph if possible, to Hutchinson & Phillips, Ltd., Chemists, 28 Warwick Street, Worthing. Phone: Worthing 2669.

ASSISTANT, young, Unqualified, for good-class Retail and Dispensing business; permanency; London district. Send full particulars to 18/24, Office of this Paper.

CHEMIST'S Assistant, Unqualified, temporary post, with experience in Window-dressing and Interior Display (*circa* ten months). Applications, with copies of recent testimonials, to be made in writing to Chester-le-Street Co-operative & Industrial Society, Ltd., Chester-le-Street, Co. Durham, endorsed "Chemist."

IMPROVER (Male) for London, S.E.1 district; good opportunity to gain further knowledge in a busy Dispensing and Quick Cash business. Write, giving full particulars and salary required, to Salmon & Husband, 128 Windsor House, Victoria Street, S.W.1.

JUNIOR Assistant, male; capable Dispenser and Counter hand. Venables, 54 Fulham Palace Road, W.6.

JUNIOR Assistant (male) required, second week September; permanency; for high-class Pharmacy. Apply, with references, salary required, height and photo, to L. J. Collis & Co., Ltd., 34 St. Leonards Road, Bexhill-on-Sea.

LADY Dispenser, Qualified and experienced, required September 1; part-time post; mornings 10-12, evenings 6.30-8; no Sunday duty; flat available if required. Apply, letter stating full particulars, Drs. Murdoch and Trick, 137 Beulah Road, Thornton Heath, Surrey. Phone: Livingstone 2421.

PHARMACIST, Registered, man (about 30), well up in Dispensing and General Retail; £5; in six months commission if satisfactory; permanency to good man, who will live in neighbourhood (pleasant London suburb); apply by letter, giving age and experience; no reply 7 days respectfully declined. 18/34, Office of this Paper.

QUALIFIED Assistant required for middle-class business in Midlands; small N.H.I.; permanency; experienced Dispenser, Salesman, Window-dresser; please state age, experience, wages required, when at liberty; comfortable position. Apply 18/40, Office of this Paper.

QUALIFIED Assistant wanted at once for Dispensing and Counter, London. Write full particulars and references to Room 1, 35 St. George's Road, S.W.1.

QUALIFIED Chemist required (either sex) by multiple firm, to manage London suburban branch; permanent appointment; modern living accommodation available, if desired; salary and commission; preference given to applicant able to take a financial interest. Write Q., 333/182, Office of this Paper.

QUALIFIED Junior Assistant for Dispensing and Counter; must be energetic and reliable; for good-class country business; please state salary required and full particulars. Bates & Hunt, New Street, Wellington, Shropshire.

QUALIFIED Manager for branch. State full particulars and when disengaged. Essex Pharmacy, 14 Victoria Circus, Southend.

QUALIFIED Manager for small lock-up shop about to be opened on Council Estate, S.E.9; good Salesman and Window-dresser; permanent post; salary, £4 and commission. Apply by letter only, Moore, 154 Middle Park Avenue, Eltham, S.E.9.

QUALIFIED Manager for small Shop just opening South Coast; must be reliable Dispenser and with ability to build business; living accommodation over shop. Write, stating age, experience and salary required. Applications not answered within seven days respectfully declined. 16/6, Office of this Paper.

QUALIFIED Manager required, either sex, for working-class business; good Window-dresser and Dispenser essential. Please state full particulars, salary required, etc., in first letter. Varley & Son, Milton Road, West Hartlepool.

REGISTERED Chemist required for evening work, about 5 to 8 o'clock p.m. each evening, from September 12; permanent if satisfactory; Westminster district; state age and terms. P.C.B. 292/33, Office of this Paper.

UNQUALIFIED Assistant (lady) required for Pharmacy in South of England; accurate Dispenser interested in Counter work. Write, giving full details, to 333/190, Office of this Paper.

UNQUALIFIED Assistant (Male) required for September or earlier; must be well trained and have good knowledge of Photography (no D. and P.). Apply, stating age, salary required and references (photographs, etc., will be returned), Barnes, Chemist, Cumbergate, Peterborough.

UNQUALIFIED Junior Assistant; must have had all-round experience, especially Dispensing. Give full particulars, age, height, and salary required. J. A. Sharp, Calne, Wilts.

UNQUALIFIED Junior Assistant required (Lady or Gentleman), accustomed to quick Counter and N.H.I. Dispensing; early September. Please give all particulars of experience, age, education, salary, etc., to W. A. Wood, Pharmaceutical Chemist, 351 High Street, West Bromwich.

UNQUALIFIED lady Assistant required for newly opened Pharmacy. Apply, giving all usual particulars, to the Secretary, Leek & Moorlands Co-operative Society, Ltd., Russell Street, Leek, Staffs.

UNQUALIFIED Male Assistant required for branch; good Counterman and capable Dispenser. Apply, stating age, height, experience and salary required to H. Hocken, Ltd., 33 Station Road, Redhill.

WANTED (experienced) Unqualified Junior Assistant (Male); energetic and used to quick N.H.I. Apply personally or in writing to O. Tobin, Ltd., 49 Harford Street, Mile End, E.1.

WANTED for business in South Wales, young Qualified Assistant; very easy situation. Apply, giving particulars, to 333/191, Office of this Paper.

WANTED.—Lady Assistant (age 18-25 years), for Counter and Stock, in good-class West End business; some previous experience essential. Please apply by letter, with usual particulars and salary required, to 18/31, Office of this Paper.

WANTED.—Young Unqualified Assistant, either sex, in light Retail country business near London (24 miles); easy hours and berth; no holiday or Sunday duty; state age, experience, salary required; photo, to be returned. 18/44, Office of this Paper.

YOUNG Chemist-Optician required for branch Pharmacy, married preferred; salary (fixed) £3 10s., with comfortable house and liberal commission on Optics. Apply, enclosing recent references and qualification, etc., to Latham, Chemist, Shirebrook.

VACANCIES FOR LOCUMS

THORNTON HEATH.—Young Qualified Assistant (Male) required from September 5 to 17 inclusive; N.H.I. and Family Business; permanency afterwards, if suitable. Usual particulars in first letter. 18/2, Office of this Paper.

LOCUM, Qualified, wanted, August 29 to September 17 or September 5 to 17; Woking district. 333/180, Office of this Paper.

LOCUM required (either sex), September 8-17 inclusive; six guineas, including board residence. Full particulars to Vincent Pharmacy, 22 Herbert Road, Plumstead, S.E.18.

LOCUM required, Qualified (male), September 5 to 17 inclusive. Peebles, Chemist, High Street, Dorking, Surrey.

WHOLESALE

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Applications invited from Salesmen with first-class connexions who know their job.

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GALENICAL Worker required for London Wholesale Druggists. Particulars to 333/184, Office of this Paper.

JUNIOR Unqualified Assistant (Male) required for small manufacturing laboratory. Apply in writing for further particulars to The Pharmacist, National Hospital, Queen Square, W.C.1.

REPRESENTATIVE, calling on Chemists, required for sale of Sigus; liberal commission basis. Apply 17/5, Office of this Paper.

REPRESENTATIVE, for well-established House, to call upon Hospitals, Nursing Homes and Medical men in London, South of the Thames, and South-Eastern Counties; applicants should state age, give full particulars of past experience, whether any connexion, and if car available for travelling. 332/161, Office of this Paper.

REPRESENTATIVE required by Manufacturer of leading nationally advertised Proprietaries, for Liverpool and West Lancs area; applicant residing in or near Liverpool, with car, preferred; good prospects. Apply, giving age, experience, etc., to 333/187, Office of this Paper.

REPRESENTATIVE required by well-established Chemists to visit Hospitals in the London area, to demonstrate already well-known important and necessary product; applicants with previous Hospital experience preferred, but not essential, and should possess car. Full particulars, age, etc., to 333/188, Office of this Paper.

REPRESENTATIVES required for the following areas: North Wales, South Wales and Mon, Gloucestershire, Wiltshire, Devonshire, Dorsetshire and Cornwall, Northern Ireland, Northumberland, Cumberland, Durham and Westmorland. High commission basis only. Internationally renowned Contraceptive house. Applicants must have good connexion amongst Chemists and Druggists, and must be of proved sales ability; car owners preferred. Write, in confidence, stating age, experience, etc., and particulars of lines at present carried. 333/176, Office of this Paper.

REPRESENTATIVES to call upon Chemists for important Wholesale Distributors marketing well-known branded articles; good salary and allowances; excellent prospects and permanency for right man with connexions. Full particulars, with previous experience, to P.C.B. 289/26, Office of this Paper.

REPRESENTATIVES wanted to carry unique range of powder puffs, etc., excellent commission and bonus; state strength of connexion. Replies giving most details will be first considered; other lines may not be objected to; present Representatives have been advised; the position is a good one. 333/177, Office of this Paper.

REQUIRED for Derbyshire and Nottinghamshire by high-class Manufacturing Biological and Pharmaceutical Chemists, Representative, with good education; knowledge of Medicine an advantage; residence in area essential. Write 333/179, Office of this Paper.

REQUIRED Representative for well-known London packed drug house for territory of North Wales and Midlands, excluding Birmingham. Reply 333/178, Office of this Paper.

TWO Representatives required for well-advertised lines selling to Chemists and Beauty Parlours, one for Kent district and one for East Lancashire and Cheshire; preferably representatives already carrying other lines; remuneration by commission and expenses. Write 333/186, Office of this Paper.

WANTED.—Competent working Tablet Hand; Midlands (age 25-30); state salary required and previous experience. 18/47, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

A.A.A.—Pharmacists, young married couple, both well experienced in high-class Pharmacy; London or provinces; what offers? 18/42, Office of this Paper.

AS Manager or Superintendent; fullest experience town and country Pharmacy, Photography, Optics (registered for N.H.I. work); September 25. 18/43, Office of this Paper.

ALL HOSPITAL PHARMACISTS & DISPENSERS SHOULD JOIN AT ONCE

The National Assoc. of Chemists' Assistants

INCORPORATED IN THE CHEMICAL WORKERS' UNION

BENEFITS: Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec., 149 Newington Causeway, London, S.E.1

EXPERIENCED Assistant (29), Unqualified, seeks situation; thoroughly competent in all branches, including Photography and Veterinary work, some Optics; married. Cooper, Penshurst, Pevensey, Sussex.

LADY Dispenser, Hall Certificate, requires post, London. Nicholson, 31A Addison Avenue, Holland Park, W.11.

LADY Dispenser (Hall), experienced Hospital and Doctor, requires post, Hospital preferred, Sutton district. Coles, 74 Park Hill, Carshalton.

LADY Dispenser (Hall) Secretary, requires post with Doctor; experienced; good testimonials; disengaged; Eastern district preferred. 17/22, Office of this Paper.

MANAGER (30), reliable, good references; London district. P.C.B. 292/37.

M.P.S. Reliable, desires permanency; disengaged September 25; London and Provincial experience; 18/4, Office of this Paper.

M.P.S. (26), finishing locum engagements, desires permanency, free September 12. Cliff, 10 Morningside Road, Worcester Park, Surrey.

M.P.S. (39), single; long, varied Retail experience; excellent references; London or Midlands; moderate salary for comfortable position; free September 17. 18/8, Office of this Paper.

M.P.S. (26), tall, good all-round experience, seeks new post late October; present post 3 years as branch manager. 18/41, Office of this Paper.

NORTH WALES COAST.—Manager, Assistant, preferably with view to succession; varied experience; very keen; permanency needed; full confidence. 17/17, Office of this Paper.

PHARMACIST-OPTICIAN, M.P.S., F.B.O.A., F.I.O.O., O.B.A.C., desires Managership or Superintendent; 20 years managing, London and provinces; experienced all branches; own Optical equipment; excellent references. 5 Iugleby Way, Chislehurst, Kent.

QUALIFIED Manager desires change shortly; West London preferred; over 20 years' managerial experience; well recommended. "M.P.S." 24 Sunbury Way, Hanworth, Middlesex.

QUALIFIED (29), free one month, for situation as Branch Manager; Lancs or Cheshire preferred; conscientious and progressive. 18/5, Office of this Paper.

QUALIFIED (34), single, desires change shortly; 8 years' managing; all-round experience; excellent references; permanency; London area. 18/10, Office of this Paper.

UNQUALIFIED married gentleman, experienced, competent, desires permanency, Assistant, Manager Drug Stores or Clerical work; Wales preferably; excellent references. 4/7, Office of this Paper.

UNQUALIFIED (44), single, fully experienced, as Assistant or Manager; recently managing London branches; Midlands preferred, but not essential; free mid-September. Baldwin, c/o 59 Heybridge Avenue, S.W.16.

YOUTH (16), disengaged, desires post as a Junior Assistant in Brighton; some experience. D. Plecer, 36 Buckingham Road, Brighton.

LOCUMS SEEKING ENGAGEMENTS

CHEMIST, Locum or permanency; experienced; recommended; disengaged September 26; London or Provinces. Chemist, 24 Hillside Crescent, South Harrow, Middlesex.

LOCUM, Qualified, free September 5, would consider position as Manager, etc.; Leeds or Bradford districts; fully experienced. Francis B. di Menna, 44 Fagley Road, Bradford. Phone: Brad. 7678.

LOCUM (Qualified), some years' experience; free from 29th; trustworthy; £6 6s.; return railway fare. Harris, 194 Burrs Road, Clacton-on-Sea.

LOCUM work required from September 19; male; Unqualified; reliable references; soundly experienced. Barnes, 62 Galveston Road, Putney, S.W.15.

PHARMACIST, locum from September 5 for 3 or 4 weeks. "Pharmacist," 118 Durbam Road, Feltbam, Middlesex.

QUALIFIED Locum, Square-trained; well recommended; good experience as manager and locum in high-class Pharmacy; free September 5-17. 18/420, Office of this Paper.

UNQUALIFIED, disengaged for one week from September 10; competent; take charge. "Cortex," 193 Crowborough Road, Streatham.

WHOLESALE

ADVERTISER is equipped by 19 years' Selling experience, at home and abroad, plus study and training for position Sales Manager or similar (37); I.S.M.A. Certificate; excellent references and record; capital available; moderate commencing salary. 18/50, Office of this Paper.

ADVERTISER seeks situation; first-class experience of Compounding and Formulating all types of Cosmetics and Toilet Preparations. Favell, 7 Queen's Crescent, N.W.5.

EXPERIENCED Cosmetic Manufacturer, big-class preparations, seeks progressive position; able to take charge male or female labour (age 28). Morrison, 23 Culmore Road, S.E.15.

EXPERIENCED Representative, travelling East London, North and North-West, 6 years' experience, connexion Chemists, Stores, etc., desires other lines; terms £3 a week. P.C.B. 292/38, Office of this Paper.

GENT. (29) desires position with firm of repute as Representative; excellent education and references; good appearance and personality; connexion in Midlands; own car. 12/9, Office of this Paper.

MANUFACTURER of Toilet and Cosmetic Preparations seeks post; accustomed to buying, control of stock, dispatch and general factory routine. 18/25, Office of this Paper.

PHARMACIST, young, with good all-round Dispensing and Buying experience. Retail and Institutional, seeks position in Hospital or Wholesale. 17/3, Office of this Paper.

TABLET Maker, capable; fully experienced; Granulating, Compressing, Coating; knowledge of Pill making; disengaged. 18/1, Office of this Paper.

YOUNG Man (28), capable and keen; 7 years' experience wholesale drug and allied trades, desires position as whole-time Representative in Northern Ireland for progressive manufacturing or wholesale house; excellent references. 15/4, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN

INDIA.—Qualified Chemist, Englishman (23), single, trustworthy, willing, knowledge Photography, sound health, good address, excellent references, seeks position. "Bismuth," 18/14, Office of this Paper.

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CASH Register; small "National" model; been carefully used; counts cash and customers; in perfect order. Write, W. Nash, 18 Braydon Road, N.16.

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Stock of Photo Goods. Why keep them any longer? Turn them into CASH. I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photoline. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

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FOR DISPOSAL.—200 Dozen $\frac{1}{2}$ min. Clinical Thermometers, Maglense (Smith & Co.), 6s. per doz., 6-doz. lots; delivered free, cash with order. Enquiries to Bargains Unlimited, 278 Dalston Lane, Hackney, E.8.

FOR SALE.—Manesty "B" Rotary Machine, in excellent condition; makes tablets up to $\frac{1}{2}$ in. diameter at a rate of 400-500 per minute. 332/163, Office of this Paper.

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TREBLES for New and Second-hand Fittings, Alterations, Shop Fronts, Glass Cases, Dispensing Screens, Counters, Drawers, Service Trays, Window Fittings, Wall Cases. Send your requirements. 549 Lea Bridge Road, Leyton, London, E.10. Phone: LEY. 2370.

WANTED for Cash, Chemists' Stocks, also Surplus Goods and Manufacturers' discontinued lines of every description. Bargains Unlimited, 278 Dalston Lane, Hackney, E.8.

THE SUPPLY OF SUPPLEMENTS

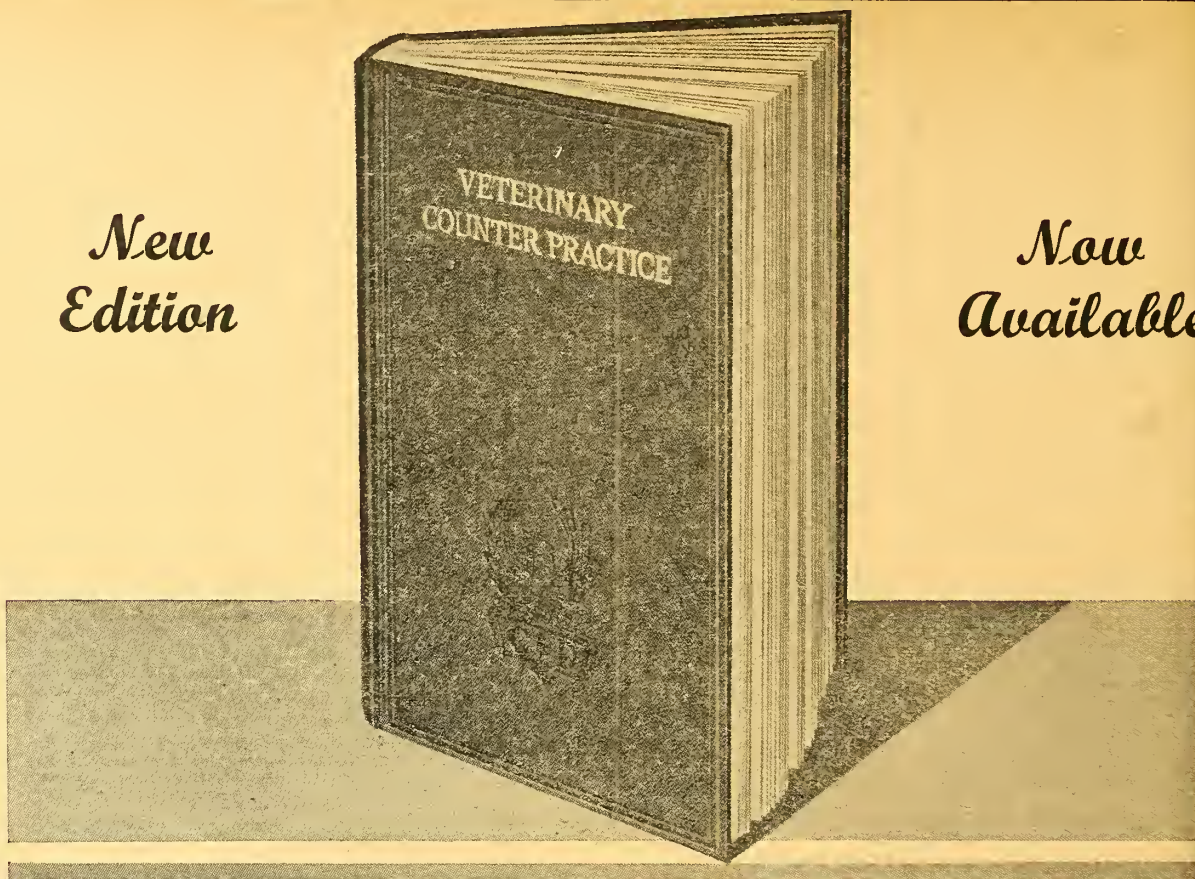
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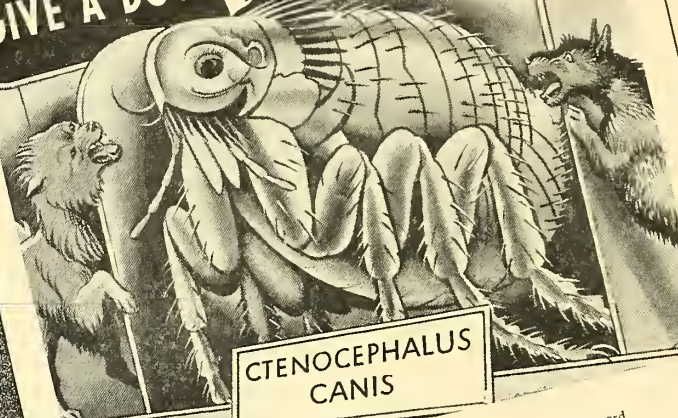
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GIVE A DOG *flea* A BAD NAME



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...AND BLOT HIM OUT, quick, sharp! Sudden death's the word because a single dog flea can carry up to 20 embryo tapeworms, waiting their chance to involve you in endless trouble and expense. Eliminate this risk of worms—87% of tapeworm infections are due to dog fleas—and the other risks as well, simply by following the

COOPER HEALTH ROUTINE

1 TO PREVENT TAPEWORMS—Spend five minutes once a week dusting your dog's coat with Pulvex, to keep him free from fleas and all flea-borne parasites. A 6d. tin lasts several months.

2 TO PREVENT ROUNDWORMS—Spend thirty seconds once a day sprinkling his main meal with Cooper's Vitamin Ration, to give him vital elements he won't get any other way. A 1/6 tin lasts two months.

IF YOUR DOG HAS WORMS NOW, Cooper's Liquid Worm Remedy will rid him of the lot, tapeworms and roundworms, with as little distress and danger as may be. Then the Cooper Health Routine, faithfully followed, will prevent the need for repeated worming.

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PULVEX VERMIN POWDER | **COOPER'S VITAMIN RATION** | **COOPER'S LIQUID WORM REMEDY**
6d and 1/3 sprinkler tins | 1/6, 2/9, and 4/6 | Small dogs 1/3, larger dogs 2/6 bottles

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TRADE TERMS—less 33 1/3% and less 5%, cash monthly

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